

Ref: 02425-05001-32008

February 17, 2006

Mr. Kevin Destruel
Mead Clark Lumber Company
P.O. Box 529
Santa Rosa, CA 95402

Re: Quarterly Groundwater Monitoring Report – Fourth Quarter 2005 and Semi-Annual Ozone/Hydrogen Peroxide System Update, Former Mead Clark Lumber Company, Third and Railroad Streets, Santa Rosa, California, NCRWQCB Case No. 1TSR016

Dear Mr. Destruel:

This report presents the results of Winzler & Kelly Consulting Engineers' (Winzler & Kelly's) fourth quarter 2005 groundwater monitoring and sampling activities performed on November 10, 2005, at the Former Mead Clark Lumber Company located at Third and Railroad Streets, Santa Rosa, California (Figures 1 and 2). The semi-annual ozone/hydrogen peroxide system update is also provided.

GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

The Site-Specific Sampling Procedures, provided in Appendix A, describe in detail all of the monitoring and sampling activities that were performed at the site on November 10, 2005. A brief summary of these activities is also provided below.

FIELD ACTIVITIES

- Personnel Present:** On November 10, 2005, Blaine Tech Services (contracted by Winzler & Kelly) measured groundwater levels and purged the groundwater monitoring wells to be sampled. Winzler & Kelly personnel collected the groundwater samples.
- Depth-to-Groundwater:** An electronic water level meter was used to measure the depth-to-groundwater (DTW) in monitoring wells GW-1, GW-2, GW-12, GW-13A, GW-14, GW-16, GW-18, GW-37, GW-38, and dual-phase extraction (DPE) wells DPE-1 and DPE-5 through DPE-9 after allowing the groundwater in each well to equilibrate to atmospheric pressure for a minimum of 20 minutes. DTW was measured while the ozone/hydrogen peroxide system was operating.
- Dissolved Oxygen:** Following DTW measurements, a calibrated dissolved oxygen (DO) meter was used to measure the concentrations of DO in all the monitoring and DPE wells sampled while the ozone/hydrogen peroxide system was operating.

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Purging: Prior to sampling, each monitoring well was purged a minimum of three well casing volumes or until the wells dewatered.

Groundwater Sampling: On November 10, 2005, groundwater samples were collected from monitoring wells GW-1, GW-2, GW-12, GW-13A, GW-18, GW-37, and dual-phase extraction (DPE) wells DPE-1 and DPE-5 through DPE-9 while the ozone/hydrogen peroxide system was operating. New disposable bailers were used to collect and transfer all groundwater samples from monitoring and DPE wells into the appropriate laboratory-supplied, certified clean sample containers.

Chemical Analysis: Analytical Sciences Laboratory (Analytical Sciences) of Petaluma, California (a California-certified laboratory) analyzed each groundwater sample collected from the monitoring and DPE wells for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX) and oxygenated fuel additives by EPA Method 8260B.

As part of the ozone remediation monitoring, groundwater samples were analyzed for hexavalent chromium by EPA Method 7196A, for bromate and bromide by EPA Method 300 (IC), and for molybdenum, selenium, and vanadium (metals) by EPA Method 6010B.

GROUNDWATER MONITORING AND SAMPLING RESULTS

The groundwater elevation and flow direction data are presented in Tables 1 and 2. A groundwater contour map, provided as Figure 3, illustrates the general groundwater elevation contours and flow direction was toward the southeast at a calculated gradient of 0.04 ft/ft in the area of no ozone and air injection. As mentioned in Winzler & Kelly's December 5, 2005 *Quarterly Groundwater Monitoring Report – Third Quarter 2005* (Third Quarter 2005 Report), the groundwater contours cannot be determined in the area of ozone and air injection because the groundwater in this area is aerated. The groundwater elevation anomaly is not mounding, but is a result of less dense groundwater produced by intermittent ozone and air injections.

Prior to purging, DO concentrations were measured in each well. Concentrations ranged from 0.1 to 17.16 mg/L. DO concentrations have increased since the previous monitoring and sampling event. Oxygen is a byproduct of the reaction between ozone and hydrogen peroxide and aids in the degradation of petroleum hydrocarbons. DO concentration results reflect the injection of ozone and hydrogen peroxide at the site and are summarized on Table 3.

During purging activities, the parameters of pH, conductivity, temperature, oxidation-reduction potential, and turbidity were monitored in the groundwater extracted from the wells. A summary of these indicator parameters is provided in Table 3.

Analytical results from the November 10, 2005 sampling event are summarized on Table 4. Consistent with previous monitoring, the highest concentrations of constituents of concern (COCs) were detected in

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the groundwater samples collected from monitoring wells located in the southwest portion of the site. The groundwater samples collected from monitoring wells located upgradient of this area continue to be free of COCs. Figure 4 depicts the TPH-G, benzene, and methyl tert-butyl ether (MTBE) concentrations that were detected in the groundwater samples collected on November 10, 2005.

Graphs were prepared to depict the concentrations of TPH-G versus groundwater elevations over time in wells GW-1, GW-2, GW-12, GW-37, DPE-1, and DPE-9 (Graphs 1 through 6). The graphs show the TPH-G data in historic and post-installation of the ozone/hydrogen peroxide system. Based on the graphs, TPH-G concentration trends and the effectiveness of the ozone/hydrogen peroxide system illustrates some beneficial results, but additional quarters of monitoring is needed to depict definite trends. Monitoring of TPH-G concentration trends and the effectiveness of the ozone/hydrogen peroxide system will continue in the next quarters (annual and first quarter 2006).

Groundwater samples collected from monitoring well GW-2 and DPE wells DPE-1, DPE-5, DPE-7, and DPE-9 were analyzed for ozone oxidation/degradation byproduct related constituents (hexavalent chromium, bromate, molybdenum, selenium, and vanadium). Analytical results did not quantify any of the above-mentioned constituents above the laboratory's reportable detection limits (RDLs) except for bromate. Bromate was detected in DPE-7 at a concentration of 0.14 mg/L. This data suggests that for this site, the oxidation of bromide and the production of bromate will occur if TPH-G concentrations drop below the threshold of 500 µg/L. TPH-G concentrations in DPE-7 during this sampling event was quantified below the laboratory's RDLs (<50 µg/L); therefore, with the low TPH-G concentration the bromide present in DPE-7 oxidized to produce bromate. To prevent further formation of bromate, injection of ozone/hydrogen peroxide near DPE-7 (SP-10 and SP-11) is presently discontinued. In addition, DPE-7 will be sampled for bromate during the next quarterly sampling event (February 2006) to verify that the bromate has diminished. Sparge points SP-10 and SP-11 were disabled and ozone/hydrogen peroxide injection was moved to SP-1 and SP-2 on December 15, 2005.

During the November 10, 2005 sampling event, bromide was detected in wells GW-2, wells DPE-1, DPE-5, DPE-7, and DPE-9. As mentioned in the Winzler & Kelly's Third Quarter 2005 Report, bromide is commonly found in groundwater and is not formed by the ozonation process. A summary of the results for the November 10, 2005 sampling event is provided in Table 5.

The laboratory QA/QC included the use of method blanks to exclude false-positive analyses and the use of laboratory control samples to evaluate the percentage recovery of known analyte spikes. The recovery percentages for all of the sample analytes were within the laboratory's acceptance ranges. The complete laboratory report, QA/QC data, and the chain-of-custody form are included in Appendix B.

GEOTRACKER DATA ENTRY

As required by Assembly Bill AB2886, Winzler & Kelly has submitted the well abandonment report, Third Quarter 2005 Report, laboratory EDF report, and the November 10, 2005 groundwater well measurement file to the GeoTracker database. Upload verification forms are provided in Appendix C. In addition, Winzler & Kelly will submit the fourth quarter 2005 analytical data upon receipt and submit this report upon completion.

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STATUS OF REMEDIAL MEASURES

A brief summary of the remedial activities in the 2005 year is provided below.

- On June 2 and 3, 2005, the ozone/hydrogen peroxide system was installed and operation started. The ozone/hydrogen peroxide system was operating with only ozone being injected on a continuous cycle in sparge points SP-3 and SP-5 through SP-11. The initial injection rate of ozone was 1.6 pounds per day (lbs/day) for the entire site. The injection of hydrogen peroxide was not initiated at this time.
- On July 19, 2005, the injection of 7% hydrogen peroxide solution was started and set to run on a batch cycle. The injection rate of the hydrogen peroxide was initially set at 7.3 lbs/day of hydrogen peroxide solution for the entire site.
- Based on the analytical results of the November 10, 2005 sampling event, sparge points SP-10 and SP-11 were turned off and switched to SP-1 and SP-2 on December 15, 2005. The table below shows the dates of operating sparge points. In addition, the hydrogen peroxide injection rate and frequency was increased to inject 35.5 lbs/day of hydrogen peroxide solution for the entire site. The ozone injection rate at the site was maintained at 1.6 lbs/day (for the entire site).

Sparge Point ID	Operating Dates	Sparge Point ID	Operating Dates
SP-1	12/15/05-Present	SP-7	6/2/05-Present
SP-2	12/15/05-Present	SP-8	6/2/05-Present
SP-3	6/2/05-Present	SP-9	6/2/05-Present
SP-4	---	SP-10	6/2/05-12/15/05
SP-5	6/2/05-Present	SP-11	6/2/05-12/15/05
SP-6	6/2/05-Present	SP-12	---

The ozone/hydrogen peroxide system has been operating as designed for approximately 172 days as of December 15, 2005, which is 87% operational since the start-up on June 2, 2005. Between June 2 and December 15, 2005, the ozone/hydrogen peroxide system was shutdown and minor repairs were performed to address high pressure alarms and plugged solenoid valves. The system is expected to operate more efficiently now that the initial maintenance and balancing has been performed. A table of the system operation and maintenance including the operational hours is provided in Appendix D.

Approximately 435 pounds total of ozone and hydrogen peroxide solution was injected at the site as of December 15, 2005. A summary of the approximate mass of ozone and hydrogen peroxide injected is provided below.

Oxidants	Total Injected per Sparge Point	Total Injected at the Site
Ozone	34.4 pounds	275 pounds
Hydrogen Peroxide Solution*	20 pounds	160 pounds

*Note: Hydrogen Peroxide Solution has been operating for a total of 22 days as of December 15, 2005.

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UPCOMING SITE ACTIVITIES

The concentration and quantity of hydrogen peroxide solution injected at the site was set initially at a low concentration and quantity. The ozone/hydrogen peroxide system has been performing as designed; therefore, an increase in the hydrogen peroxide demand will be made to address the dissolved hydrocarbons. The hydrogen peroxide solution concentration will be increased to 10% to aggressively oxidize the dissolved hydrocarbons.

Winzler & Kelly will continue to perform quarterly groundwater monitoring and sampling activities at the site. The next groundwater sampling event (first quarter 2006/annual event) is scheduled for February 2006. DTW of off-site wells MW-1, GW-22, and GW-26 (in addition to on-site wells) will be collected during this event to evaluate the overall site groundwater flow direction. Additionally, concentration trends will be included in the first quarter 2006/annual monitoring and sampling report.

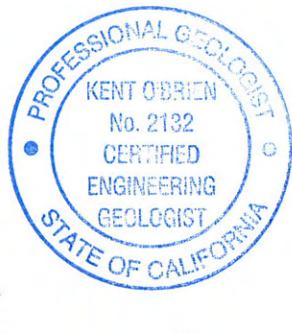
If you have any questions or comments regarding this project, please contact David J. Vossler, Project Manager, at (707) 523-1010.

Sincerely,
WINZLER & KELLY



Pon Xayasaeng
Environmental Engineer

Kent O'Brien, PG, CEG
Senior Project Geologist



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Attachments

Figures:

- Figure 1 – Location Map
- Figure 2 – Site Map
- Figure 3 – Groundwater Contour Map
- Figure 4 – Petroleum Hydrocarbon Concentrations in Groundwater

Tables:

- Table 1 – Water Level Data and Well Construction Details
- Table 2 – Groundwater Gradient and Flow Direction
- Table 3 – D.O., Nitrate, and Indicator Parameters
- Table 4 – Groundwater Sample Analyses Results
- Table 5 – Additional Groundwater Analytical Results

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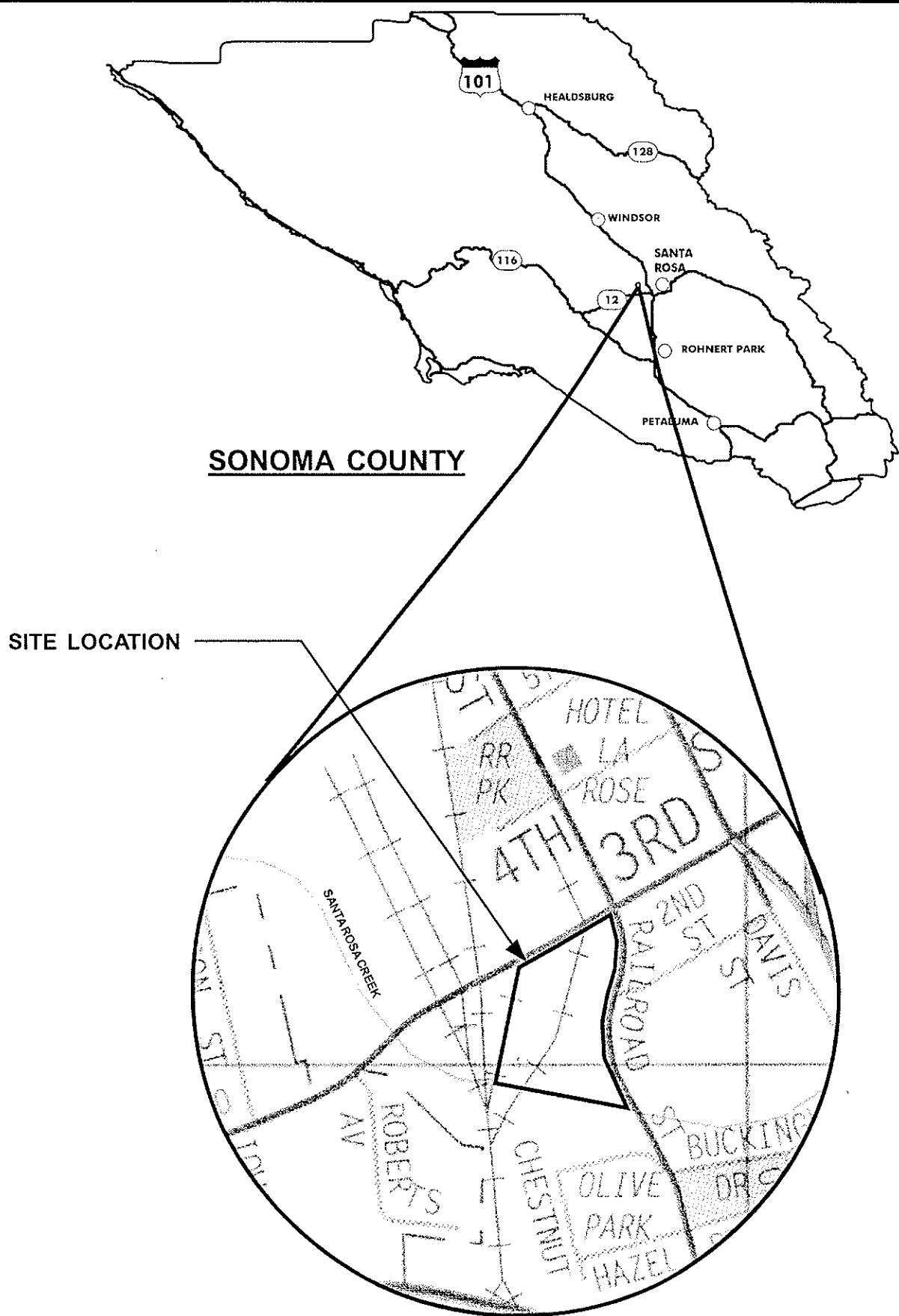
Graphs:

- Graph 1 – TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-1
- Graph 2 – TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-2
- Graph 3 – TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-12
- Graph 4 – TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-37
- Graph 5 – TPH-G Concentrations vs. Groundwater Elevations Over Time in DPE-1
- Graph 6 – TPH-G Concentrations vs. Groundwater Elevations Over Time in DPE-6

Appendices:

- Appendix A – Site-Specific Sampling Procedures
 - Appendix B – Analytical Laboratory Report
 - Appendix C – GeoTracker Upload Verifications
 - Appendix D – Operation and Maintenance Data
- c: Ms. Joan Fleck, North Coast Regional Water Quality Control Board, 5550 Skylane Boulevard, Suite A, Santa Rosa, CA 95403
- Mr. John F. DeMeo, Law Offices of DeMeo & DeMeo, 565 West College Avenue, Santa Rosa, CA 95401

Figures



LOCATION MAP
FORMER MEAD CLARK LUMBER COMPANY
THIRD & RAILROAD STREETS
SANTA ROSA, CA

FIGURE 1

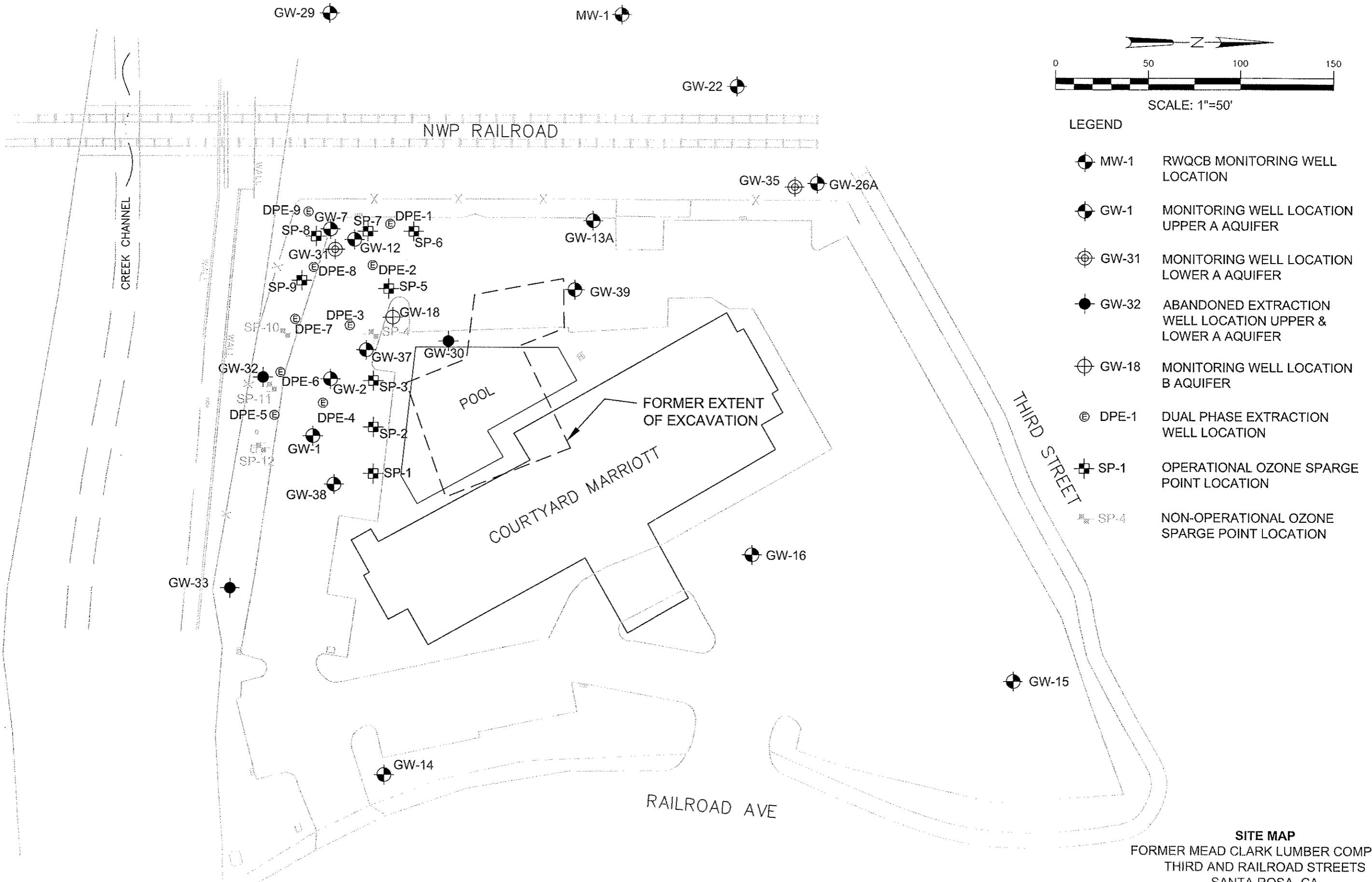


FIGURE 2

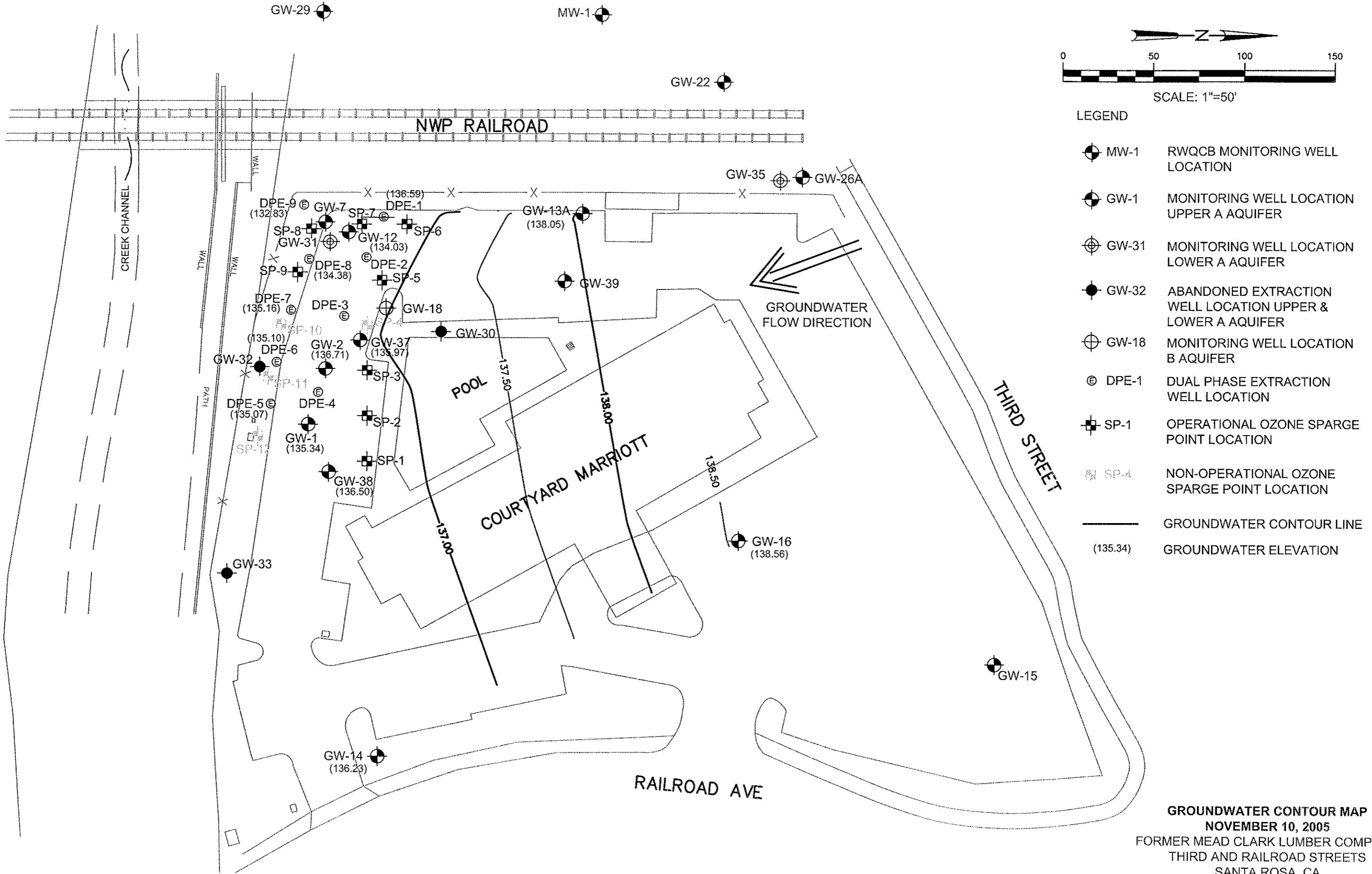


FIGURE 3

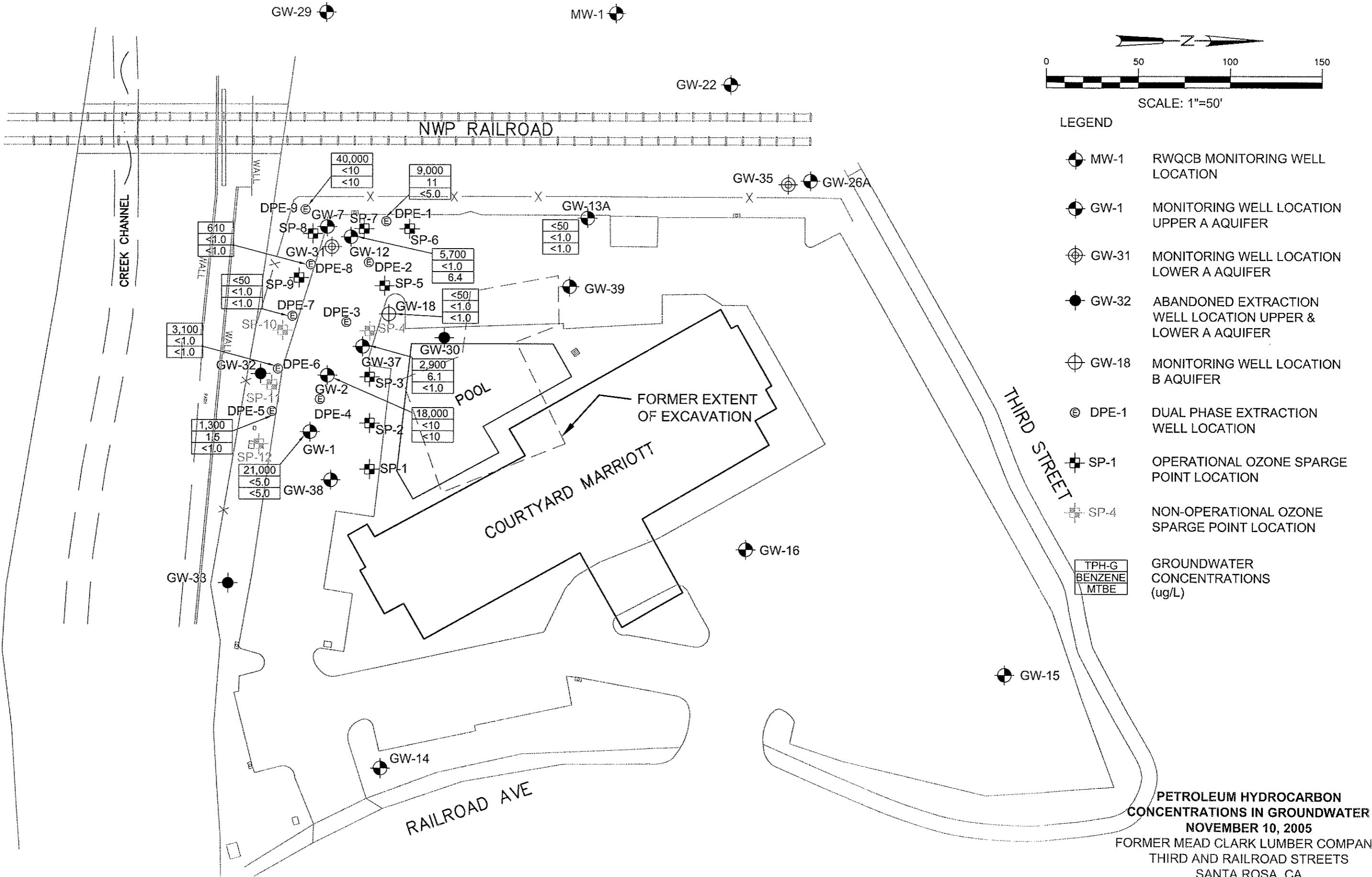


FIGURE 4

Tables

Table 1. Water Level Data and Well Construction Details

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
								feet
GW-1 Upper-A	7/25/2001	133.62	20.67	154.29	NM	11.75-31.75	9.75-32.0	0.0-9.75
	10/29/2001	132.99	21.30		NM			
	1/30/2002	137.58	16.71		NM			
	4/29/2002	135.67	18.62		Sheen ¹			
	7/30/2002	134.50	19.79		0.01			
	10/28/2002	135.73	18.56		ND			
	1/28/2003	137.85	16.44		Sheen ¹			
	4/29/2003	137.30	16.99		Sheen			
	8/7/2003	135.44	18.85		Droplets ¹			
	11/3/2003	134.08	20.21		Droplets ¹			
	1/27/2004	136.90	17.39		Droplets ¹			
	5/28/2004	136.19	18.10		Sheen ¹			
	5/10/2005	137.80	16.49		ND			
	8/10/2005*	136.15	18.14		ND			
	11/10/2005	135.34	18.95		Droplets ¹			
GW-2 Upper-A	7/25/2001	135.10	19.24	154.34	NM	11.75-31.75	9.75-32.0	0.0-9.75
	10/29/2001	134.21	20.13		NM			
	1/30/2002	138.52	15.82		NM			
	4/29/2002	137.11	17.23		Sheen ¹			
	7/30/2002	135.88	18.46		0.01			
	10/28/2002	137.13	17.21		Sheen			
	1/28/2003	138.63	15.71		Sheen ¹			
	4/29/2003	137.93	16.41		Sheen			
	8/7/2003	136.92	17.42		Droplets ¹			
	11/3/2003	135.04	19.30		Droplets ¹			
	1/27/2004	137.89	16.45		Droplets ¹			
	5/28/2004	137.04	17.30		Sheen ¹			
	5/10/2005	138.34	16.00		Sheen ¹			
	8/10/2005*	137.00	17.34		ND			
	11/10/2005	136.71	17.63		Droplets ¹			
GW-7 Upper-A	7/25/2001	NA	NA	153.65	NM	9.5-31.5	7.5-32.0	0.0-7.5
	10/29/2001	132.27	21.16		0.28			
	1/30/2002	137.83	15.82		Sheen ²			
	4/29/2002	135.18	18.47		Sheen ²			
	7/30/2002	133.63	20.02		Sheen ²			
	10/28/2002	134.98	18.67		Sheen ²			
	1/28/2003	138.22	15.43		Sheen ^{1,2}			
	4/29/2003	137.13	16.52		Sheen			
	8/7/2003	134.70	18.95		ND			
	11/3/2003	133.51	20.14		ND			
	1/27/2004	137.18	16.47		ND			
	5/28/2004	134.90	18.75		ND			
	5/10/2005	138.41	15.24		NM			
GW-12 Upper-A	7/25/2001	133.46	18.47	151.93	0.01	8.0-38.0	4.0-38.0	0.0-4.0
	10/29/2001	132.77	19.16		0.01			
	1/30/2002	138.21	13.72		Sheen ²			
	4/29/2002	135.47	16.46		Sheen ²			
	7/30/2002	133.74	18.19		Sheen ²			
	10/28/2002	135.08	16.85		Sheen ²			
	1/28/2003	138.52	13.41		Sheen ^{1,2}			
	4/29/2003	137.40	14.53		Sheen			
	8/7/2003	134.82	17.11		ND			
	11/3/2003	133.43	18.50		ND			
	1/27/2004	137.37	14.56		ND			
	5/28/2004	135.15	16.78		ND			
	5/10/2005	138.63	13.30		NM			
	8/10/2005*	135.28	16.65		NM			
	11/10/2005	134.03	17.90		NM			

Table 1. Water Level Data and Well Construction Details

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
								feet
GW-13A Upper-A	7/25/2001	137.47	16.30	153.77	NM	6.8-21.8	5.0-23.1	0.0-5.0
	10/29/2001	136.88	16.89		NM			
	1/30/2002	140.17	13.60		NM			
	4/29/2002	138.84	14.93		NM			
	7/30/2002	137.57	16.20		NM			
	10/28/2002	138.36	15.41		NM			
	1/28/2003	140.31	13.46		NM			
	4/29/2003	139.93	13.84		NM			
	8/7/2003	138.23	15.54		NM			
	11/3/2003	136.67	17.10		NM			
	1/27/2004	140.04	13.73		NM			
	5/28/2004	138.61	15.16		NM			
	5/10/2005	140.54	13.23		NM			
	8/10/2005*	138.28	15.49		NM			
	11/10/2005	138.05	15.72		NM			
GW-14 Upper-A	7/25/2001	134.55	20.42	154.97	NM	9.4-35.4	8-29.0	0.0-8.0
	10/29/2001	134.02	20.95		NM			
	1/30/2002	138.97	16.00		NM			
	4/29/2002	136.72	18.25		NM			
	7/30/2002	135.62	19.35		NM			
	10/28/2002	136.67	18.30		NM			
	1/28/2003	139.42	15.55		NM			
	4/29/2003	138.23	16.74		NM			
	8/7/2003	136.62	18.35		NM			
	11/3/2003	134.88	20.09		NM			
	1/27/2004	137.81	17.16		NM			
	5/28/2004	137.03	17.94		NM			
	5/10/2005	139.35	15.62		NM			
	11/10/2005*	136.23	18.74		NM			
GW-15 Upper-A	7/25/2001	139.99	13.43	153.42	NM	8.3-31.3	7.0-32.5	0.0-7.0
	10/29/2001	139.22	14.20		NM			
	1/30/2002	142.74	10.68		NM			
	4/29/2002	140.95	12.47		NM			
	7/30/2002	140.04	13.38		NM			
	10/28/2002	140.39	13.03		NM			
	1/28/2003	143.04	10.38		NM			
	4/29/2003	141.61	11.81		NM			
	8/7/2003	140.48	12.94		NM			
	11/3/2003	139.12	14.30		NM			
	1/27/2004	142.32	11.10		NM			
	5/28/2004	140.73	12.69		NM			
	5/10/2005	142.28	11.14		NM			
GW-16 Upper-A	7/25/2001	138.14	16.71	154.85	NM	7.3-25.3	6.5-27.5	0.0-6.5
	10/29/2001	137.44	17.41		NM			
	1/30/2002	141.55	13.30		NM			
	4/29/2002	139.31	15.54		NM			
	7/30/2002	138.22	16.63		NM			
	10/28/2002	138.95	15.90		NM			
	1/28/2003	141.82	13.03		NM			
	4/29/2003	140.40	14.45		NM			
	8/7/2003	138.75	16.10		NM			
	11/3/2003	137.24	17.61		NM			
	1/27/2004	141.06	13.79		NM			
	5/28/2004	139.30	15.55		NM			
	5/10/2005	141.37	13.48		NM			
	8/10/2005*	139.05	15.80		NM			
	11/10/2005	138.56	16.29		NM			

Table 1. Water Level Data and Well Construction Details

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
								feet
GW-18 B-Aquifer	7/25/2001	132.58	22.69	155.27	NM	69.0-86.0	67.0-89.0	0.0-67.0
	10/29/2001	131.40	23.87		NM			
	1/30/2002	138.10	17.17		NM			
	4/29/2002	135.73	19.54		NM			
	7/30/2002	132.92	22.35		NM			
	10/28/2002	131.58	23.69		NM			
	1/28/2003	138.84	16.43		NM			
	4/29/2003	137.41	17.86		NM			
	8/7/2003	133.73	21.54		NM			
	11/3/2003	132.20	23.07		NM			
	1/27/2004	137.67	17.60		NM			
	5/28/2004	134.67	20.60		NM			
	5/10/2005	137.96	17.31		NM			
	8/10/2005*	134.27	21.00		NM			
	11/10/2005	133.41	21.86		NM			
GW-19 Upper-A	7/25/2001	130.78	21.97	152.75	NM	7.5-32.5	6.5-33.5	0.0-6.5
	10/29/2001	NM	NM		NM			
	1/30/2002	NM	NM		NM			
	4/29/2002	132.45	20.30		NM			
	7/30/2002 - 5/28/2004	NM	NM		NM			
GW-26A Upper-A	7/25/2001	NA	NA	154.27	NM	10.0-30.0	9.0-31.0	0.0-9.0
	10/29/2001	136.70	17.57		NM			
	1/30/2002 - 5/28/2004	NM	NM		NM			
GW-31 Lower-A	7/25/2001	132.79	21.00	153.79	NM	44.0-52.0	43.0-52.0	0.0-43.0
	10/29/2001	132.13	21.66		ND			
	1/30/2002	137.09	16.70		NM			
	4/29/2002	135.32	18.47		NM			
	7/30/2002	133.50	20.29		NM			
	10/28/2002	132.78	21.01		NM			
	1/28/2003	137.81	15.98		NM			
	4/29/2003	136.47	17.32		NM			
	8/7/2003	134.08	19.71		ND			
	11/3/2003	133.11	20.68		NM			
	1/27/2004	136.61	17.18		NM			
	5/28/2004	134.71	19.08		NM			
	5/10/2005	137.16	16.63		NM			
	8/10/2005*	134.59	19.20		NM			
GW-37 Upper-A	7/25/2001	134.71	20.08	154.79	NM	8.5-33.5	9.5-36.5	0.0-9.5
	10/29/2001	134.05	20.74		ND			
	1/30/2002	138.50	16.29		NM			
	4/29/2002	136.50	18.29		NM			
	7/30/2002	135.14	19.65		NM			
	10/28/2002	136.61	18.18		ND			
	1/28/2003	138.70	16.09		ND			
	4/29/2003	137.86	16.93		NM			
	8/7/2003	136.64	18.15		ND			
	11/3/2003	134.92	19.87		NM			
	1/27/2004	137.98	16.81		NM			
	5/28/2004	136.48	18.31		NM			
	5/10/2005	138.34	16.45		NM			
	8/10/2005*	136.66	18.13		NM			
	11/10/2005	135.97	18.82		NM			

Table 1. Water Level Data and Well Construction Details

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/Grout Interval
								feet
GW-38 Upper-A	7/25/2001	135.17	19.87	155.04	NM	8.0-37.0	9.0-39.5	0.0-9.0
	10/29/2001	134.45	20.59		NM			
	1/30/2002	138.89	16.15		NM			
	4/29/2002	137.13	17.91		NM			
	7/30/2002	135.89	19.15		NM			
	10/28/2002	137.04	18.00		NM			
	1/28/2003	139.29	15.75		NM			
	4/29/2003	138.52	16.52		NM			
	8/7/2003	136.89	18.15		NM			
	11/3/2003	135.06	19.98		NM			
	1/27/2004	138.38	16.66		NM			
	5/28/2004	137.17	17.87		NM			
	5/10/2005	139.04	16.00		NM			
	11/10/2005*	136.50	18.54		NM			
GW-39 Upper-A	7/25/2001	137.55	17.34	154.89	NM	7.5-27.5	7.0-31.5	0.0-7.0
	10/29/2001	136.94	17.95		ND			
	1/30/2002	140.35	14.54		NM			
	4/29/2002	138.92	15.97		NM			
	7/30/2002	137.53	17.36		NM			
	10/28/2002	138.39	16.50		NM			
	1/28/2003	140.49	14.40		NM			
	4/29/2003	139.98	14.91		NM			
	8/7/2003	138.21	16.68		NM			
	11/3/2003	136.70	18.19		NM			
	1/27/2004	140.14	14.75		NM			
	5/28/2004	138.69	16.20		NM			
	5/10/2005	140.68	14.21		NM			
DPE-1	9/8/2003	131.76	22.00	153.76	ND	16-26.0	14.0-26.0	0-12.0
	11/3/2003	134.93	18.83		ND			
	1/27/2004	139.03	14.73		NM			
	5/28/2004	137.56	16.20		NM			
	5/10/2005	139.80	13.96		NM			
	8/10/2005*	136.84	16.92		NM			
DPE-2	9/8/2003	NM	NM	154.03	ND	16.0-20.0	14.0-26.0	0-12.0
	11/3/2003	NM	NM		NM			
	1/27/2004	138.43	15.60		NM			
	5/28/2004	136.81	17.22		NM			
	5/10/2005	139.35	14.68		NM			
DPE-3	9/10/2003	134.99	19.50	154.49	ND	14.0-24.0	13.5-24.0	0-13.5
	11/3/2003	134.56	19.93		ND			
	1/27/2004	137.70	16.79		NM			
	5/28/2004	136.15	18.34		NM			
	5/10/2005	138.15	16.34		NM			
DPE-4	9/10/2003	134.92	20.00	154.92	ND	15-25.0	14.5-25.0	0-14.5
	11/3/2003 -	NM	NM		NM			
	5/28/2004							
	5/10/2005	138.21	16.71		NM			
DPE-5	9/10/2003	132.46	22.50	154.96	ND	15.0-25.0	14.5-25.0	0-14.5
	11/3/2003	NM	NM		NM			
	1/27/2004	135.66	19.30		NM			
	5/28/2004	135.32	19.64		NM			
	5/10/2005	136.77	18.19		NM			
	8/10/2005*	135.57	19.39		NM			
	11/10/2005	135.07	19.89		NM			

Table 1. Water Level Data and Well Construction Details

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
								feet
DPE-6	9/10/2003	133.89	21.00	154.89	ND	15.0-25.0	14.5-25.0	0-14.5
	11/3/2003	NM	NM		NM			
	1/27/2004	135.71	19.18		NM			
	5/28/2004	135.38	19.51		NM			
	5/10/2005	136.84	18.05		NM			
	11/10/2005*	135.10	19.79		NM			
DPE-7	9/9/2003	134.49	20.00	154.49	ND	14.0-24.0	13.0-24.5	0-13.0
	11/3/2003 - 5/28/2004	NM	NM		NM			
	5/10/2005	137.64	16.85		NM			
	8/10/2005*	135.49	19.00		NM			
	11/10/2005	135.16	19.33		NM			
DPE-8	9/9/2003	134.30	20.00	154.30	ND	14.0-24.0	13.0-24.0	0-13.0
	11/3/2003 - 5/28/2004	NM	NM		NM			
	5/10/2005	137.60	16.70		NM			
	11/10/2005*	134.38	19.92		NM			
DPE-9	9/9/2003	133.71	20.50	154.21	ND	14.0-24.0	13.0-24.0	0-13.0
	11/3/2003	133.52	20.69		ND			
	1/27/2004	136.13	18.08		ND			
	5/28/2004	134.38	19.83		0.13 feet			
	5/10/2005	137.18	17.03		ND			
	8/10/2005*	134.06	20.15		NM			
	11/10/2005	132.83	21.38		Sheen¹			

Notes:

* = Ozone/Hydrogen Peroxide system installation and started-up on June 2 and 3, 2005.

NM = Not Measured

ND = Non Detect

¹ = Observed after purging of monitoring well.

² = Product-absorbent sock temporarily removed from well to collect depth-to-water measurements.

-- = Well not surveyed

Top of Casing Elevations Surveyed by Winzler & Kelly on September 24, 2001. Elevations based on National Geodetic Survey Bench Mark U 106, located at the Santa Rosa Northwestern Pacific Railroad Station, with an elevation of 157.30 (NGVD 29) above mean sea level.

Table 2. Groundwater Gradient and Flow Direction

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Date	Groundwater Gradient (ft/ft)	Flow Direction	Wells Used for Calculating Gradient and Flow Direction of the Upper-A Aquifer
7/25/2001	0.01 to 0.03	South to Southeast	GW-1, GW-2, GW-12 through GW-16, GW-37, & GW-37 through GW-39
10/29/2001	0.01 to 0.03	South to Southeast	GW-1, GW-2, GW-12 through GW-16, GW-26, GW-37, & GW-37 through GW-39
1/30/2002	0.01 to 0.02	South to Southwest	GW-1, GW-2, GW-12 through GW-16, GW-37, & GW-37 through GW-39
4/29/2002	0.01 to 0.02	South to Southeast	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39
7/30/2002	0.01 to 0.03	Southeast	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39
10/28/2002	0.01	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39
1/28/2003	0.01	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39
4/29/2003	0.01	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39
8/7/2003	0.01	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39
11/3/2003	0.01	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39, DPE-1, 3, & 9
1/27/2004	0.02	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39, DPE-1, 2, 3, 5, 6 & 9
5/28/2004	0.01	South	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-37 through GW-39, DPE-1, 2, 3, 5, 6 & 9
5/10/2005	0.02	Southwest	GW-1, GW-2, GW-7, GW-12 through GW-16, GW-31, GW-37 through GW-39, DPE-1 through DPE- 9
8/10/2005	0.03	Southwest	GW-1, GW-2, GW-12, GW-13A, GW-16, GW-18, GW-31, GW-37, DPE-1, DPE-5, DPE-7, and DPE- 9
11/10/2005	0.04	Southwest	GW-1, GW-2, GW-12, GW-13A, GW-14, GW-16, GW-18, GW-37, GW-38, DPE-1, and DPE-5 through DPE-9

Table 3. D.O., Nitrate, and Indicator Parameters

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Sample Date	DO (mg/L)	Nitrates (mg/L)	pH	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°F)	ORP (mV)
GW-1	10/28/2002	NA	NA	7.0	640	714	70.5	NA
	1/28/2003 ^a	NA	NA	6.6	691	177	70.7	NA
	4/29/2003				Not Sampled			
	8/7/2003	NA	NA	7.4	684	141	72.3	NA
	11/3/2003	NA	NA	6.5	717	556	67.8	NA
	1/27/2004	NA	NA	6.5	727	46	68.8	NA
	5/28/2004	NA	NA	6.7	642	226	70.3	61
	5/10/2005	0.3	NA	7.0	668	126	70.0	-100
	8/10/2005*	0.4	NA	6.6	665	>1000	68.7	NA
	11/10/2005	0.98	NA	6.7	678	>1000	71.3	-79
GW-2	1/28/2003 ^a	NA	NA	6.3	686	19	69.4	NA
	4/29/2003				Not Sampled			
	8/7/2003	NA	NA	7.3	651	68	71.8	NA
	11/3/2003	NA	NA	6.7	713	71,000	67.9	NA
	1/27/2004	NA	NA	6.5	709	127	68.0	NA
	5/28/2004	NA	NA	6.7	641	108	69.5	80
	5/10/2005	0.4	NA	6.9	651	21	69.2	-125
	8/10/2005*	0.5	NA	6.6	655	>1000	69.6	NA
	11/10/2005	0.97	NA	6.7	737	>1000	72.8	-70
GW-7	1/28/2003	NA	NA	6.1	831	225	67.0	NA
	4/29/2003 ^b	NA	<0.50	NA	NA	NA	NA	NA
	8/7/2003	NA	NA	6.7	961	158	68.3	NA
	11/3/2003	NA	NA	6.5	970	222	66.3	NA
	1/27/2004	NA	NA	6.2	837	175	66.8	NA
	5/28/2004				Not Sampled			
	5/10/2005	0.4	NA	6.4	526	21	66.7	-93
GW-12	1/28/2003 ^a	NA	NA	6.4	939	113	69.5	NA
	4/29/2003				Not Sampled			
	8/7/2003	NA	NA	6.7	947	22	69.6	NA
	11/3/2003	NA	NA	6.4	1048	118	66.4	NA
	1/27/2004	NA	NA	6.4	930	65	68.6	NA
	5/28/2004	2.4	<0.10	6.6	902	50	70.2	48
	5/10/2005	0.4	NA	7.0	955	10	69.4	-115
	8/10/2005*	0.3	NA	6.8	924	34	68.1	NA
	11/10/2005	1.33	NA	6.8	917	>1000	67.8	28
GW-13A	7/30/2002	0.19	NA	6.8	670	55	68.6	NA
	10/28/2002	NA	NA	6.9	659	23	69.2	NA
	1/28/2003	NA	NA	6.5	665	9	67.6	NA
	4/29/2003	NA	NA	6.6	669	7	66.7	NA
	8/7/2003	NA	NA	6.7	682	31	67.7	NA
	11/3/2003				Not Sampled			
	1/27/2004				Not Sampled			
	5/28/2004	3.2	<0.10	6.6	654	8	67.8	113
	5/10/2005	0.6	NA	6.7	624	11	66.6	20
	8/10/2005*	0.4	NA	6.6	629	11	67.0	NA
	11/10/2005	1.21	NA	6.7	619	46	67.7	50
GW-14	7/30/2002	0.23	NA	6.2	664	43	64.7	NA
	10/28/2002	NA	NA	6.6	611	10	66.2	NA
	1/28/2003	NA	NA	6.5	689	11	65.0	NA
	4/29/2003	NA	NA	6.3	641	18	61.4	NA
	8/7/2003	NA	NA	6.7	680	19	65.8	NA
	11/3/2003				Not Sampled			
	1/27/2004	NA	NA	6.5	736	16	65.9	NA
	5/28/2004				Not Sampled			
	5/10/2005	0.2	NA	6.4	674	10	65.0	121

Table 3. D.O., Nitrate, and Indicator Parameters

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Sample Date	DO (mg/L)	Nitrates (mg/L)	pH	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°F)	ORP (mV)
GW-15	7/30/2002	0.35	<5	6.8	639	3	69.5	NA
	10/28/2002	NA	NA	7.3	604	1	68.5	NA
	1/28/2003	NA	NA	6.4	642	7	66.7	NA
	4/29/2003	NA	NA	7.2	690	23	62.1	NA
	8/7/2003	NA	NA	7.2	639	4	70.3	NA
	11/3/2003				Not Sampled			
	1/27/2004	NA	NA	6.6	616	15	66.3	NA
	5/28/2004				Not Sampled			
	5/10/2005	1.8	NA	7.0	599	103	64.3	128
GW-16	7/30/2002	NA	NA	6.7	603	51	68.2	NA
	10/28/2002	NA	NA	7.1	579	24	68.6	NA
	1/28/2003	NA	NA	6.3	640	60	67.5	NA
	4/29/2003	NA	1.6	6.7	628	46	66.5	NA
	8/7/2003	NA	NA	6.7	631	18	69.5	NA
	11/3/2003				Not Sampled			
	1/27/2004				Not Sampled			
	5/28/2004	3.3	2.5	6.6	654	21	69.0	137
	5/10/2005	0.4	NA	6.6	661	24	67.7	145
	8/10/2005*	0.2	NA	6.4	629	21	67.4	NA
GW-18	7/30/2002	NA	NA	7.7	521	4	67.7	NA
	10/28/2002	NA	NA	7.3	515	2	67.1	NA
	1/28/2003	NA	NA	7.6	554	1	65.4	NA
	4/29/2003	NA	NA	7.2	534	2	66.8	NA
	8/7/2003	NA	NA	7.3	548	4	68.0	NA
	11/3/2003				Not Sampled			
	5/28/2004				Not Sampled			
	5/10/2005	0.6	NA	7.4	524	10	65.8	13
	8/10/2005*	0.4	NA	7.2	524	13	66.2	NA
	11/10/2005	1.03	NA	7.3	523	6	66.0	56
GW-31	7/30/2002	NA	NA	7.4	674	28	68.2	NA
	10/28/2002	NA	NA	7.1	708	31	69.2	NA
	1/28/2003	NA	NA	7.3	799	6	68.4	NA
	4/29/2003	NA	NA	7.3	676	48	65.8	NA
	8/7/2003	NA	NA	7.3	677	462	70.2	NA
	11/3/2003				Not Sampled			
	5/28/2004				Not Sampled			
	5/10/2005	1.0	NA	7.4	739	14	67.0	50
	8/10/2005*	3.0	NA	7.6	749	14	67.4	NA
GW-37	7/30/2002	0.18	<5	6.7	954	607	69.1	NA
	10/28/2002	NA	NA	6.9	941	883	70.0	NA
	1/28/2003	NA	NA	6.7	1141	128	69.5	NA
	4/29/2003	NA	<0.50	6.6	1020	96	68.0	NA
	8/7/2003	NA	NA	6.6	946	54	68.7	NA
	11/3/2003	NA	NA	6.3	823	387	66.8	NA
	1/27/2004	NA	NA	6.3	1140	53	69.1	NA
	5/28/2004	NA	NA	6.6	921	147	69.4	80
	5/10/2005	0.3	NA	6.6	1013	37	69.5	-72
	8/10/2005*	0.3	NA	6.7	970	>1000	68.8	NA
	11/10/2005	17.16	NA	6.8	909	>1000	70.7	98
GW-38	7/30/2002	0.19	<5	6.7	704	224	69.0	NA
	10/28/2002	NA	NA	7.1	651	59	70.5	NA
	1/28/2003	NA	NA	6.8	701	13	70.0	NA
	4/29/2003	NA	NA	6.7	727	33	68.0	NA
	8/7/2003	NA	NA	6.7	724	87	68.8	NA
	11/3/2003	NA	NA	6.2	717	55	68.8	NA
	1/27/2004	NA	NA	6.5	708	38	69.7	NA
	5/28/2004	NA	NA	6.7	692	30	69.1	115
	5/10/2005	0.5	NA	6.9	634	34	69.1	50

Table 3. D.O., Nitrate, and Indicator Parameters

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Sample Date	DO (mg/L)	Nitrates (mg/L)	pH	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°F)	ORP (mV)
GW-39	7/30/2002	0.20	NA	NA	NA	NA	NA	NA
	10/28/2002	NA	NA	7.1	595	122	70.1	NA
	1/28/2003	NA	NA	6.3	703	90	68.5	NA
	4/29/2003	NA	NA	6.6	658	122	67.4	NA
	8/7/2003	NA	NA	6.6	634	74	68.9	NA
	11/3/03*				Not Sampled			
	5/28/04							
DPE-1	5/10/2005	0.3	NA	6.6	659	9	67.0	41
	11/3/2003	NA	NA	6.5	1059	280	67.7	NA
	1/27/2004	NA	NA	6.4	943	514	67.7	NA
	5/28/2004	NA	NA	6.6	847	996	68.1	27
	5/10/2005	0.3	NA	6.5	920	47	67.3	-125
	8/10/2005*	0.3	NA	6.6	777	37	69.4	NA
DPE-2	11/10/2005	1.16	NA	6.5	730	90	68.6	-17
	1/27/2004	NA	NA	6.4	890	68	71.3	NA
	5/28/2004				Not Sampled			
DPE-3	5/10/2005	0.3	NA	6.8	878	17	70.3	-156
	11/3/2003	NA	NA	6.6	1022	192	69.4	NA
	1/27/2004	NA	NA	6.4	847	38	71.4	NA
	5/28/2004				Not Sampled			
DPE-4	5/10/2005	0.4	NA	6.7	655	13	69.1	-130
	1/27/2004	NA	NA	6.4	776	156	69.9	NA
DPE-5	5/28/2004				Not Sampled			
	5/10/2005	0.6	NA	6.8	635	27	69.2	-99
	8/10/2005*	0.1	NA	6.7	655	48	68.5	NA
	11/10/2005	11.89	NA	6.7	552	146	69.3	46
DPE-6	1/27/2004	NA	NA	6.5	733	167	68.8	NA
	5/28/2004				Not Sampled			
	5/10/2005	0.7	NA	6.7	641	12	67.5	-80
	11/10/2005*	1.0	NA	6.7	701	70	69.8	-51
DPE-7	5/10/2005	0.4	NA	6.9	659	12	67.7	-84
	8/10/2005*	0.5	NA	6.8	580	72	67.8	NA
	11/10/2005	12.63	NA	7.2	621	>1000	68.1	-51
DPE-8	5/10/2005	0.4	NA	6.7	779	10	68.1	-56
	11/10/2005*	7.31	NA	7.1	432	70	69.9	34
DPE-9	11/3/2003	NA	NA	6.7	1010	236	67.8	NA
	1/27/2004	NA	NA	6.3	769	75	66.6	NA
	5/28/2004	NA	NA	6.6	760	71000	68.2	31
	5/10/2005	0.1	NA	6.8	729	10	66.0	-113
	8/10/2005*	0.7	NA	6.4	802	34	69.0	NA
	11/10/2005	1.25	NA	6.6	751	>1000	71.0	-35

Notes:

* = Ozone/Hydrogen Peroxide system installation and start-up on June 2 and 3, 2005.

DO = Dissolved Oxygen

mg/L = milligrams per liter

uS/cm = microSiemens per centimeter

NTU = nephelometric turbidity units

°F = degrees Fahrenheit

mV = millivolts

NA = Constituent Not Analyzed

a = The well was purged but not sampled.

b = A groundwater sample was collected to be analyzed for nitrates only. The well was not purged.

c = Visual observation

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company

Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA	
			ug/L											
GW-1 Upper-A	11/17/1986		NA	NA		NA	540	160	<2.5	820	NA	NA	***	
	12/23/1986		NA	NA		NA	540	280	280	1,400	NA	NA	1.2	
	5/12/1987		NA	NA		NA	8,900	2,000	1,100	3,300	NA	NA	***	
	6/2/1987		NA	NA		NA	4,800	1,800	1,000	3,100	NA	NA	***	
	12/16/1987		NA	NA		NA	2,900	1,500	3,100	14,000	NA	NA	NA	
	3/22/1988		12,400	NA		<50	1,450	425	550	2,025	NA	NA	NA	
	7/6/1988		20,800	NA		<10,000	5,400	400	2,500	560	NA	NA	NA	
	10/11/1988		61,000	NA		<5,000	2,100	1,100	2,700	10,500	NA	NA	NA	
	1/13/1989		82,000	NA		NA	2,000	850	3,800	13,000	NA	NA	NA	
	4/13/1989		190,000	NA		NA	1,100	850	1,900	9,600	NA	NA	NA	
	7/21/1989		70,000	NA		NA	650	270	1,400	3,400	NA	NA	NA	
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.												
	4/29/2002		13,000	10,000 ¹		NA	47	20	970	330	<10	<10, TBA < 250	NA	
	7/30/2002		Not sampled due to free product											
GW-2 Upper-A	10/28/2002	8015M/8020/8260B	12,000	33,000 ^{1,3}		NA	25	13	680	270	<10	<10, TBA < 250	NA	
	1/28/2003 & 4/29/03		Not sampled due to sheen											
	8/7/2003	8015M/8260	30,000	NA		NA	<100	<100	830	230	<100	<100, TBA <2,500	NA	
	11/3/2003	8015M/8260	9,300	NA		NA	<5.0	<5.0	72	15	<5.0	<5.0, TBA <100	NA	
	1/27/2004	8015M/8260B	12,000	NA		NA	<20	<20	460	91	<20	<20, TBA <500	NA	
	5/28/2004	5030/8015M/8260B	32,000	NA		NA	<20	<20	420	190	<20	<20, TBA <500	NA	
	5/10/2005	5030/8015M/8260B	4,300	14,000 ^{1,4}	<2,000	NA	1.6	1.2	93	20	<1.0	<1.0, TBA <25	NA	
	8/10/2005 ^a	5030/8015M/8260B	7,800	NA	NA	NA	<5.0	<5.0	<5.0	99	<5.0	<5.0, TBA <120	NA	
	11/10/2005 ^b	5030/8015M/8260B	21,000	NA	NA	NA	<5.0	<5.0	61	12	<5.0	<5.0, TBA <120	NA	
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.												
	4/29/2002		Not sampled due to sheen											
	1/30/2002	8015M/8020/8260M	8,800	150,000 ^{1,2}		NA	130	54	290	76	<5.0	<5.0, TBA < 100	<5.0	
	7/30/2002		Not sampled due to free product											
	10/28/2002		Not sampled due to sheen											
	thru 4/29/03													
	8/7/2003	8015M/8260	20,000	NA		NA	7.0	7.1	370	26	<5.0	<5.0, TBA < 100	<5.0	
	11/3/2003	8015M/8260	4,700	NA		NA	3.3	<2.0	11	2.0	<2.0	<2.0, TBA <50	NA	
	1/27/2004	8015M/8260B	11,000	NA		NA	8.5	<5.0	130	14	<5.0	<5.0, TBA <100	NA	
	5/28/2004	5030/8015M/8260B	28,000	NA		NA	<5.0	<5.0	110	10	<5.0	<5.0, TBA <100	NA	
	5/10/2005	5030/8015M/8260B	31,000	21,000 ^{1,4}	<2,000	NA	12	<10	81	14	<10	<1.0, TBA <25	NA	
	8/10/2005 ^a	5030/8015M/8260B	18,000	NA	NA	NA	<10	<10	150	15	<10	<10, TBA <250	NA	
	11/10/2005 ^b	5030/8015M/8260B	18,000	NA	NA	NA	<10	<10	12	<10	<10	<10, TBA <250	NA	

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
GW-3	11/17/1986		NA	NA		NA	420	120	<2.5	770	NA	NA	<0.1
	12/23/1986		NA	NA		NA	530	46	38	720	NA	NA	<0.1
	5/12/1987		NA	NA		NA	2,100	250	230	430	NA	NA	<1
	12/16/1987		NA	NA		NA	1,900	1,200	730	3,300	NA	NA	NA
	3/22/1988		8,200	NA		<50	300	190	140	340	NA	NA	NA
	3/22/1988		11,000	NA		<50	620	380	310	620	NA	NA	NA
	6/30/1988		2,900	NA		<2,500	1,100	60	80	50	NA	NA	NA
	6/30/1988		2,600	NA		<2,500	980	42	45	60	NA	NA	NA
Abandoned													
GW-4	11/17/1986		NA	NA		NA	500	3,500	<50	5,700	NA	NA	0.80
	12/23/1986		NA	NA		NA	2,200	2,400	1,800	6,700	NA	NA	1.0
	5/12/1987		NA	NA		NA	1,500	880	890	2,000	NA	NA	***
	12/17/1987		NA	NA		NA	4,100	3,300	1,900	8,500	NA	NA	NA
	3/22/1988		30,000	NA		<50	430	410	230	800	NA	NA	NA
	6/28/1988		17,000	NA		<12,500	2,700	1,200	1,100	2,000	NA	NA	NA
Abandoned													
GW-5	11/17/1986		NA	NA		NA	550	5.0	<1	1,300	NA	NA	8.30
	12/23/1986		NA	NA		NA	910	360	380	5,500	NA	NA	7.40
	5/12/1987		NA	NA		NA	7,100	5400	1,800	6,000	NA	NA	***
	12/16/1987		NA	NA		NA	2,200	410	820	2,800	NA	NA	NA
	3/22/1988		18,000	NA		<50	2,600	390	570	1,800	NA	NA	NA
	6/30/1988		14,000	NA		<12,500	1,700	310	350	1,300	NA	NA	NA
Abandoned													
GW-6	11/17/1986		NA	NA		NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1
	5/12/1987		NA	NA		NA	150	1.0	2.2	3.3	NA	NA	<0.1
	12/23/1986		NA	NA		NA	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1
	12/16/1987		NA	NA		NA	390	12	8.7	27	NA	NA	<0.5
	3/22/1988		130	NA		<50	12	1.5	0.7	3.4	NA	NA	NA
	6/28/1988		80	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
Abandoned													
GW-7 Upper-A	11/17/1986		NA	NA		NA	330	480	<25	1,800	NA	NA	7.20
	12/23/1986		NA	NA		NA	930	250	280	1,500	NA	NA	<0.1
	1/19/1987		NA	NA		NA	1,900	100	850	2,200	NA	NA	NA
	12/16/1987		NA	NA		NA	NA	NA	NA	NA	NA	NA	<25
	4/8/1988		1,200,000	NA		<250,000	5,000	2,200	2,600	13,000	NA	NA	NA
	7/22/1988		410,000	NA		<250	21,000	10,000	15,000	51,000	NA	NA	NA
	10/11/1988		47,000	NA		<25,000	6,500	360	2,900	9,100	NA	NA	NA
	1/13/1989		4,188,000	NA		NA	3,500	430	2,400	5,600	NA	NA	NA
	4/13/1989		290,000	NA		NA	2,300	310	2,600	7,500	NA	NA	NA
	7/21/1989		510,000	NA		NA	5,700	310	4,400	6,700	NA	NA	NA
1998													
Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.													
Not sampled due to free product													
Not sampled due to sheen													
8/7/2003 8015M/8260 29,000 NA NA 220 6.6 490 100 <5.0 <5.0, TBA <250 NA													
11/3/2003 8015M/8260 37,000 NA NA 270 10 430 82 <10 <10, TBA <250 NA													
1/27/2004 8015M/8260B 8,800 NA NA 51 <5.0 130 12 <5.0 <5.0, TBA <100 NA													
5/10/2005 5030/8015M/8260B 5,300 4,900 ¹ <200 NA 23 2.0 80 4.5 <1.0 <1.0, TBA <25 NA													

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA	
			ug/L											
GW-8	12/18/1987		NA	NA		NA	4,600	250	210	24	NA	NA	NA	
	3/22/1988		6,700	NA		<50	970	150	60	90	NA	NA	NA	
Abandoned														
GW-9	12/18/1987		NA	NA		NA	220	<0.8	<0.8	<0.8	NA	NA	NA	
			Abandoned											
GW-10	12/18/1987		NA	NA		NA	<0.8	<0.8	<0.8	<0.8	NA	NA	NA	
			Abandoned											
GW-11	12/18/1987		NA	NA		NA	<0.8	<0.8	<0.8	<0.8	NA	NA	NA	
	3/22/1988		<50	NA		<50	0.6	0.6	<0.2	1.4	NA	NA	NA	
Abandoned														
GW-12 Upper-A	12/18/1987		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
	4/8/1988		6,000,000	NA		<25,000	4,000	1,000	1,000	5,000	NA	<5.0	NA	
	7/22/1988		56,000	NA		<250	8,000	1,200	1,400	9,400	NA	NA	NA	
	10/11/1988		460,000	NA		<25,000	12,000	2,600	1,100	33,000	NA	NA	NA	
	1/13/1989		72,000	NA		NA	8,700	970	2,900	9.1	NA	NA	NA	
	1/13/1989		70,000	NA		NA	120	55	270	6,600	NA	NA	NA	
	4/13/1989		25,000	NA		NA	3,200	310	1,100	3,300	NA	NA	NA	
	7/21/1989		81,000	NA		NA	7,600	470	2,700	4,200	NA	NA	NA	
	1998		Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
	7/25/2001		Not sampled due to free-product											
10/29/2001	5030/8015M/8260	18,000	9,800		9,800	400	<30	770	<50	<0.50	***		<50	
1/30/2002 thru 4/29/03		Not sampled due to sheen												
8/7/2003	8015M/8260	15,000	NA		NA	390	12	640	30	<10	<10, TBA <250		NA	
11/3/2003	8015M/8260	11,000	NA		NA	47	<5.0	83	5.7	17	<5.0, TBA <100		NA	
1/27/2004	8015M/8260B	9,100	NA		NA	180	<10	420	17	<10	<10, TBA <250		NA	
5/28/2004	5030/8015M/8260B	5,700	NA		NA	170	<10	280	18	<10	<10, TBA <250		NA	
5/10/2005	5030/8015M/8260B	8,000	4,700 ¹	<200	NA	140	6.5	240	12	<5.0	<5.0, TBA <120		NA	
8/10/2005 ^a	5030/8015M/8260B	7,100	NA	NA	NA	30	<5.0	27	6.2	<5.0	<5.0, TBA <120		NA	
11/10/2005	5030/8015M/8260B	5,700	NA	NA	NA	<1.0	<1.0	6.8	<1.0	6.4	<1.0, TBA <25		NA	
GW-13A Upper-A	12/16/1987		NA	NA		NA	1,000	500	360	950	NA	NA	NA	
	3/22/1988		3,700	NA		<50	370	22	36	100	NA	NA	NA	
	6/28/1988		660	NA		<250	<2.5	1.5	<2.5	3.1	NA	NA	NA	
	10/6/1988		1,300	NA		<250	19	6.4	18	21	NA	NA	NA	
	1/11/1989		4,000	NA		NA	450	20	35	180	NA	NA	NA	
	4/11/1989		2,700	NA		NA	200	18	130	180	NA	NA	NA	
	7/20/1989		300	NA		NA	2.6	<0.5	1.2	<0.5	NA	NA	NA	
	1998		Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
7/25/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	<0.50	***		NA	
10/29/2001	8015M/8260	130	<50		<50	<0.30	<0.30	<0.50	<0.50	<0.50	***		<0.50	
1/30/2002	8015M/8020/8260M	120	50 ¹		NA	0.75	0.62	0.66	<1.5	<1.0	<1.0, TBA <25		<1.0	
4/29/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
7/30/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
10/28/2002	8015M/8020/8260B	100	<50		NA	0.61	<0.5	0.55	<1.5	<1.0	<1.0, TBA <25		NA	
1/28/2003	8015M/8020/8260B	97	88 ¹		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
4/29/2003	8015M/8020/8260B	86	73 ¹		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
8/7/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
5/28/2004	5030/8015M/8260B	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
5/10/2005	5030/8015M/8260B	98	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
8/10/2005 ^a	5030/8015M/8260B	<50	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	
11/10/2005	5030/8015M/8260B	<50	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25		NA	

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company

Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
GW-14 Upper-A	12/16/1987		<50	NA		<50	<0.8	<0.8	<0.8	NA	NA	NA	26
	3/22/1988		400	NA		<50	40	1.9	0.7	1.4	NA	NA	<0.5
	6/25/1988		410	NA		<50	24	2.7	0.9	1.3	NA	NA	NA
	10/6/1988		270	NA		<100	6.8	6.0	<1.0	3.2	NA	NA	NA
	1/11/1989		<50	NA		NA	2.2	1.3	0.75	NA	NA	NA	NA
	4/12/1989		<50	NA		NA	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	7/20/1989		<100	NA		NA	0.6	<0.5	<0.5	<0.5	NA	NA	NA
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
	2/19/1990		ND	NA		NA	ND	ND	NA	NA	NA	NA	NA
	6/22/1990		ND	NA		NA	ND	ND	NA	NA	NA	NA	NA
GW-15 Upper-A	10/24/1990		ND	NA		NA	ND	ND	NA	NA	NA	NA	NA
	7/25/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	ND	<0.50, TBA <10	NA
	10/29/2001	8015M/8260	<4.0	<50		<50	<0.30	<0.30	<0.50	<0.50	ND	<0.50, TBA <10	<0.50
	1/30/2002	8015M/8020/8260M	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	<1.0
	4/29/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	7/30/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	10/28/2002	8015M/8020/8260B	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	NA
	1/28/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	4/29/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/7/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	1/27/2004	8015M/8260B	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	12/18/1987	110	NA		<50	2.4	<0.8	<0.8	NA	NA	NA	1.50	
	3/24/1988		<50	NA		NA	<0.2	<0.2	<0.2	NA	NA	NA	<0.5
	7/1/1988		<50	NA		<50	<0.5	<0.5	<0.5	NA	NA	NA	NA
	10/7/1988		<50	NA		<50	<0.5	<0.5	<0.5	NA	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	4/12/1989		<50	NA		NA	<1.0	<1.0	<1.0	NA	NA	NA	NA
	7/20/1989		<100	NA		NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	2/19/1990		ND	NA		NA	ND	ND	NA	NA	NA	NA	NA
	6/25/1990		ND	NA		NA	ND	ND	NA	NA	NA	NA	NA
	10/24/1990		ND	NA		NA	ND	ND	NA	NA	NA	NA	NA
GW-15 Upper-A	7/25/2001	8015M/8260	<50	<50		<50	<0.30	0.90	<0.50	<0.50	<0.50	***	NA
	10/29/2001	8015M/8260	<4.0	<50		<50	<0.30	<0.30	<0.50	<0.50	<0.50	***	<0.50
	1/30/2002	8015M/8020/8260M	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	<1.0
	4/29/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	7/30/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	10/28/2002	8015M/8020/8260B	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	NA
	1/28/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	4/29/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/7/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	1/27/2004	8015M/8260B	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company

Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
GW-16 Upper-A	12/29/1987		51	NA		50	22	<0.5	<0.5	0.5	NA	NA	NA
	3/24/1988		460	NA		<50	240	2.5	0.9	3.9	NA	NA	2.7
	7/1/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	10/7/1988		150	NA		<50	4.4	1.5	0.9	3.6	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	2/19/1990		180	8.5		NA	8.5	ND	5.3	0.98	NA	NA	NA
	6/21/1990		ND	NA		NA	ND	ND	ND	ND	NA	NA	NA
	10/24/1990		ND	NA		NA	ND	ND	ND	ND	NA	NA	NA
	7/25/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	***	NA	NA
	10/29/2001	8015M/8260	<4.0	<50		<50	<0.30	<0.30	<0.50	<0.50	2.5	***	<0.50
	1/30/2002	8015M/8020/8260M	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	<1.0
	4/29/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	7/30/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	10/28/2002	8015M/8020/8260B	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	NA
	1/28/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	4/29/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/7/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	5/28/2004	5030/8015M/8260B	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/10/2005 ^a	5030/8015M/8260B	<50	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
GW-18 B-Aquifer	1/12/1988		<50	NA		<50	NA	NA	NA	NA	NA	NA	NA
	4/21/1988		NA	NA		NA	<0.2	<0.2	<0.2	<0.2	NA	NA	<0.5
	6/28/1988		<50	NA		<50	<0.2	1.3	<0.5	2.0	NA	NA	NA
	10/7/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	4/13/1989		<50	NA		NA	3.9	<0.5	<1.5	<1.5	NA	NA	NA
	7/20/1989		<100	NA		NA	1.1	<0.5	<0.5	<0.5	NA	NA	NA
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
	2/19/1990		ND	NA		NA	ND	0.63	ND	0.42	NA	NA	NA
	7/25/2001	8015M/8260	<50	<50		<50	<0.30	1.2	<0.50	<0.50	<0.50	***	NA
GW-19 Upper-A	10/29/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	<0.50	***	<0.50
	1/30/2002	8015M/8020/8260M	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	<1.0
	4/29/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	7/30/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	10/28/2002	8015M/8020/8260B	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA <25	NA
	1/28/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	1.3	<1.0	<1.0, TBA <25	NA
	4/29/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/7/2003	8015M/8260	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/10/2005 ^a	5030/8015M/8260B	<50	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	11/10/2005	5030/8015M/8260B	<50	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company

Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
GW-20	3/24/1988		<50	NA		NA	<0.2	<0.2	<0.2	NA	NA		<0.5
	7/1/1988		<50	NA		<50	<0.5	<0.5	<0.5	NA	NA		NA
	10/11/1988		<50	NA		<50	<0.5	<0.5	<0.5	NA	NA		NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	NA	NA		NA
	4/11/1989		<50	NA		NA	2.8	<0.5	<1.5	NA	NA		NA
	7/19/1989		<100	NA		NA	<0.5	<0.5	<0.5	NA	NA		NA
GW-21	4/4/1988		<50	NA		<50	<0.5	<0.5	<0.5	NA	NA		<0.5
	6/21/1988		60	NA		<50	1.0	2.0	<0.5	19	NA		NA
	10/11/1988		<50	NA		<50	<0.5	<0.5	<0.5	NA	NA		NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	NA	NA		NA
	4/11/1989		<50	NA		NA	<0.5	<0.5	<1.5	NA	NA		NA
	7/19/1989		<100	NA		NA	<0.5	<0.5	<0.5	NA	NA		NA
GW-22	4/5/1988		3,400	NA		<250	315	27	90	230	NA	NA	<0.5
	7/1/1988		310	NA		<50	<0.5	1.7	<0.5	1.0	NA	NA	NA
	10/12/1988		<50	NA		<50	<0.5	<0.5	<0.5	1.3	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	NA	NA		NA
	4/11/1989		420	NA		NA	45	2.1	<1.5	3.8	NA	NA	NA
	7/19/1989		360	NA		NA	6.0	<0.5	<0.5	NA	NA		NA
GW-23	4/5/1988		30,000	NA		<250	780	710	285	735	NA	NA	<0.5
	6/28/1988		31,000	NA		<5000	10,000	1,900	1,600	4,500	NA	NA	NA
	10/12/1988		29,000	NA		<6250	16,000	750	3,000	5,800	NA	NA	NA
	1/13/1989		71,000	NA		NA	9,600	1,300	5,700	6,900	NA	NA	NA
	4/13/1989		21,000	NA		NA	4,200	340	1,400	2,300	NA	NA	NA
	7/21/1989		54,000	NA		NA	6,600	220	2,000	1,800	NA	NA	NA
GW-24	4/6/1988		<50	NA		NA	<0.2	<0.2	<0.2	<0.5	NA	NA	***
	6/29/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	10/11/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	4/12/1989		<50	NA		NA	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	7/19/1989		<100	NA		NA	0.7	<0.5	<0.5	<0.5	NA	NA	NA
	2/19/1990		ND	NA		NA	ND	ND	0.3	ND	NA	NA	NA
	6/22/1990		ND	NA		NA	ND	ND	ND	ND	NA	NA	NA
	10/27/1990		ND	NA		NA	ND	ND	ND	ND	NA	NA	NA
GW-25	4/11/1988		14,700	NA		<1,000	2,960	440	184	1,290	NA	NA	8.0
	6/28/1988		11,000	NA		<25000	3,400	100	<25	1,900	NA	NA	NA
	10/12/1988		6,600	NA		<1250	2,200	44	160	340	NA	NA	NA
	1/13/1989		16,000	NA		NA	1,500	9.1	26	1,600	NA	NA	NA
	4/11/1989		<50	NA		NA	120	170	360	720	NA	NA	NA
	7/19/1989		21,000	NA		NA	2,300	73	590	440	NA	NA	NA
	2/19/1990		12,000	NA		NA	1,200	92	850	860	NA	NA	NA
	6/25/1990		10,000	NA		NA	780	44	5.9	410	NA	NA	NA
	10/27/1990		16,000	NA		NA	1,000	100	970	1,200	NA	NA	NA
GW-26	4/14/1988		20,000	NA		<250	8,410	488	492	1,250	NA	NA	3.0
	Abandoned												
	5/5/1988		6,600	NA		<500	1,800	50	6.0	510	NA	NA	1.3
	7/1/1988		3,000	NA		<2,000	1,000	21	<20	90	NA	NA	NA
	10/11/1988		4,900	NA		<1,250	2,200	<0.5	320	260	NA	NA	NA
	1/11/1989		2,100	NA		NA	250	2.6	6.7	19	NA	NA	NA
	4/12/1989		700	NA		NA	8.3	<1.0	<1.0	22	NA	NA	NA
	7/19/1989		4,900	NA		NA	140	4.0	190	79	NA	NA	NA

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Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
GW-27	4/14/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	<0.5
	6/29/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	10/11/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	4/12/1989		<50	NA		NA	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	7/19/1989		<100	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
GW-28	4/14/1988		1,504	NA		<250	538	17	47	62	NA	NA	<0.5
	6/28/1988		870	NA		<250	65	7	<2.5	13	NA	NA	NA
	10/12/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	1/11/1989		1,500	NA		NA	<0.5	<0.5	<0.5	0.89	NA	NA	NA
	4/11/1989		270	NA		NA	22	3.3	<1.5	6.9	NA	NA	NA
	7/19/1989		570	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
GW-29	4/25/1988		4,840	NA		<250	120	12.5	39.5	67	NA	NA	***
	6/30/1988		NA	NA		NA	2.0	<0.5	<0.5	4.7	NA	NA	0.9
	7/3/1988		770	NA		<50	NA	NA	NA	NA	NA	NA	NA
	10/12/1988		1,400	NA		<500	75	4.0	5.6	14	NA	NA	NA
	1/11/1989		2,400	NA		NA	7.5	72	<0.5	12	NA	NA	NA
	4/11/1989		<50	NA		NA	<0.5	<0.5	<1.5	<1.5	NA	NA	NA
	7/19/1989		1,700	NA		NA	33	<0.5	3.4	2.2	NA	NA	NA
GW-30	4/25/1988		51,210	NA		<2,500	13,150	7,500	1,085	5,300	NA	NA	26
	6/28/1988		19,000	NA		<5,000	NA	NA	NA	NA	NA	NA	NA
	7/6/1988		NA	NA		<1,000	1,650	1,300	122	2,000	NA	NA	35
	10/11/1988		11,000	NA		<2,500	6,300	540	190	870	NA	NA	NA
	1/13/1989		12,000	NA		NA	2,400	900	39	580	NA	NA	NA
	4/13/1989		3,600	NA		NA	530	170	78	300	NA	NA	NA
	7/20/1989		14,000	NA		NA	1,000	210	180	290	NA	NA	NA
1998													
Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.													
GW-31 Lower-A	5/4/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	<0.5
	7/6/1988		<50	NA		<50	<0.5	<0.5	<0.5	0.6	NA	NA	<0.5
	10/11/1988		<50	NA		<50	5.9	3.7	<0.5	4.6	NA	NA	NA
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
	4/12/1989		<50	NA		NA	<1.0	<1.0	<1.0	<1.0	NA	NA	NA
	7/21/1989		<100	NA		NA	0.5	<0.5	0.6	<0.5	NA	NA	NA
1998													
Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.													
	7/25/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	3.4	NA	NA
	10/29/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	3.2	NA	4.4
	1/30/2002	8015M/8020/8260M	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	4.0	<1.0, TBA < 25	2.4
	4/29/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	2.5	<1.0, TBA < 25	4.0
	7/30/2002	8015M/8020/8260M	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	2.3	<1.0, TBA < 25	4.8
	10/28/2002	8015M/8020/8260B	<50	<50		NA	<0.5	<0.5	<0.5	<1.5	3.1	<1.0, TBA < 25	NA
	1/28/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	3.3	<1.0, TBA < 25	4.0
	4/29/2003	8015M/8020/8260B	<50	<50		NA	<1.0	<1.0	<1.0	<1.0	3.3	<1.0, TBA < 25	5.7
	8/7/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	6.8
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	2.6	<1.0, TBA < 25	7.0
	8/10/2005 ^a	5030/8015M/8260B	<50	NA	NA	NA	<1.0 ⁵	<1.0	<1.0	<1.0	2.0	<1.0, TBA < 25	6.4

Table 4. Groundwater Sample Analyses Results

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Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
GW-32	6/30/1988		NA	NA		NA	<0.5	<0.5	<0.5	NA	NA	NA	0.5
	7/3/1988		<50	NA		<50	NA	NA	NA	NA	NA	NA	NA
	10/11/1988	83	NA			<50	34	1.8	1.0	NA	NA	NA	NA
	1/11/1989	<50	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	4/12/1989	<50	NA			NA	<1.0	<1.0	<1.0	NA	NA	NA	NA
	7/20/1989	<100	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
	2/19/1990	1,300	NA			NA	140	16	47	99	NA	NA	NA
	6/23/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
	10/26/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
GW-33	6/30/1988	NA	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	<0.5
	7/3/1988	<50	NA			<50	NA	NA	NA	NA	NA	NA	NA
	10/11/1988	76	NA			<50	3.5	<0.5	0.9	6.8	NA	NA	NA
	1/11/1989	<50	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	4/13/1989	<50	NA			NA	<0.5	<0.5	<1.5	<1.5	NA	NA	NA
	7/20/1989	<100	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
	2/19/1990	ND	NA			NA	ND	0.03	ND	NA	NA	NA	NA
	6/22/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
	10/25/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
GW-34	7/25/1988	<50	NA			<50	<0.5	<0.5	<0.5	2.0	NA	NA	6.6
	10/12/1988	<50	NA			<50	0.6	<0.5	<0.5	1.1	NA	NA	NA
	1/11/1989	<50	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	4/12/1989	<50	NA			NA	<0.5	<0.5	<1.5	<1.5	NA	NA	NA
	7/19/1989	<100	NA			NA	<0.5	0.5	<0.5	<0.5	NA	NA	NA
	2/19/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
	6/23/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
	10/25/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
GW-35	7/22/1988	<50	NA			<50	<0.5	<0.5	<0.5	NA	NA	NA	<0.5
	10/11/1988	54	NA			<50	3.0	1.0	1.5	5.8	NA	NA	<0.5
	1/11/1989	<50	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	4/11/1989	<50	NA			NA	<0.5	<0.5	<1.5	<1.5	NA	NA	NA
	7/19/1989	<100	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.											
GW-36	7/27/1988	NA	NA			NA	NA	NA	NA	NA	NA	NA	1.5
	8/7/1988	<50	NA			<50	<0.5	<0.5	<0.5	NA	NA	NA	NA
	10/12/1988	<50	NA			<50	<0.5	<0.5	<0.5	NA	NA	NA	NA
	1/11/1989	<50	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	4/12/1989	<50	NA			NA	<0.5	<0.5	<1.5	<1.5	NA	NA	NA
	7/19/1989	<100	NA			NA	<0.5	<0.5	<0.5	NA	NA	NA	NA
	2/19/1990	160	NA			NA	12	0.6	2.7	1.4	NA	NA	NA
	6/23/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA
	10/27/1990	ND	NA			NA	ND	ND	ND	NA	NA	NA	NA

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Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA	
			ug/L											
GW-37 Upper-A	7/22/1988		9,800	NA		<2,500	6,000	340	<25	625	NA	NA	<0.5	
	10/11/1988		15,000	NA		<2,500	5,000	300	570	900	NA	NA	NA	
	1/13/1989		48,000	NA		NA	3,700	2,100	240	5,500	NA	NA	NA	
	4/12/1989		13,000	NA		NA	2,200	703	319	588	NA	NA	NA	
	7/20/1989		21,000	NA		NA	3,100	280	660	890	NA	NA	NA	
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.												
	7/25/2001	8015M/8260	8,400	860		860	600	<30	71	<50	<50	***	NA	
	10/29/2001	8015M/8260	9,400	1,400		1,400	340	19	20	18	<5.0	***	<5.0	
	1/30/2002	8015M/8020/8260M	4,200	1,700 ¹		NA	350	27	99	32	<5.0	<5.0, TBA < 100	<5.0	
	4/29/2002	8015M/8020/8260M	5,500	2,000 ¹		NA	210	12	190	29	<2.0	<2.0, TBA < 50	NA	
GW-38 Upper-A	7/30/2002	8015M/8020/8260M	8,600	3,100 ¹		NA	150	10	52	16	<5.0	<5.0, TBA < 100	NA	
	10/28/2002	8015M/8020/8260B	5,800	2,400 ¹		NA	170	40	97	48	<2.0	<2.0, TBA < 50	NA	
	1/28/2003	8015M/8020/8260B	8,900	3,400 ¹		NA	280	9.7	170	20	<2.0	<2.0, TBA < 50	NA	
	4/29/2003	8015M/8020/8260B	6,000	3,900 ¹		NA	180	11	97	19	<5.0	<5.0, TBA < 25	NA	
	8/7/2003	8015M/8260	8,700	NA		NA	110	7.8	89	26	<5.0	<5.0, TBA < 100	NA	
	11/3/2003	8015M/8260	5,500	NA		NA	100	6.5	16	7.4	<2.0	<2.0, TBA < 50	NA	
	1/27/2004	8015M/8260B	5,900	NA		NA	290	8.5	100	15	<5.0	<5.0, TBA < 100	NA	
	5/28/2004	5030/8015M/8260B	4,200	NA		NA	100	6.7	82	10	<5.0	<5.0, TBA < 100	NA	
	5/10/2005	5030/8015M/8260B	6,100	2,500 ¹	<200	NA	180	9.8	85	14	<5.0	<5.0, TBA < 120	NA	
	8/10/2005 ^a	5030/8015M/8260B	4,600	NA	NA	NA	55	<5.0	54	27	<5.0	<5.0, TBA < 120	NA	
GW-39	11/10/2005	5030/8015M/8260B	2,900	NA	NA	NA	6.1	<1.0	84	56	<1.0	<1.0, TBA < 25	NA	
	7/22/1988		1,900	NA		<50	340	19	39	59	NA	NA	<0.5	
	10/11/1988		3,900	NA		<500	800	42	330	150	NA	NA	NA	
	1/13/1989		1,700	NA		NA	23	6.40	6.3	23	NA	NA	NA	
	4/13/1989		780	NA		NA	27	4.1	2.0	16	NA	NA	NA	
	7/20/1989		3,000	NA		NA	15	<0.5	23	<0.5	NA	NA	NA	
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.												
	7/25/2001	8015M/8260	310	<50		<50	<0.30	0.87	7.7	0.6	<0.50	***	NA	
	10/29/2001	8015M/8260	<50	<50		<50	<0.30	<0.30	<0.50	<0.50	<0.50	***	<0.50	
	1/30/2002	8015M/8020/8260M	340	130 ¹		NA	2.4	1.2	9.6	2.0	<1.0	<1.0, TBA < 25	<1.0	
MW-1	4/29/2002	8015M/8020/8260M	1,100	400 ¹		NA	<1.0	<1.0	5.2	<1.0	<1.0	<1.0, TBA < 25	NA	
	7/30/2002	8015M/8020/8260M	500	230 ¹		NA	<1.0	<1.0	2.7	<1.0	<1.0	<1.0, TBA < 25	NA	
	10/28/2002	8015M/8020/8260B	500	130 ¹		NA	4.9	3.2	6.1	2.4	<1.0	<1.0, TBA < 25	NA	
	1/28/2003	8015M/8020/8260B	400	180 ¹		NA	<1.0	<1.0	3.9	<1.0	<1.0	<1.0, TBA < 25	NA	
	4/29/2003	8015M/8020/8260B	180	130 ¹		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
	8/7/2003	8015M/8260	450	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
	11/3/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
	1/27/2004	8015M/8260B	61	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
	5/28/2004	5030/8015M/8260B	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
GW-39	7/22/1988		<50	NA		<50	<0.5	<0.5	<0.5	<0.5	NA	NA	<0.5	
	10/11/1988		60	NA		<50	3.2	0.7	<0.5	0.7	NA	NA	NA	
	1/11/1989		<50	NA		NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	
	4/11/1989		<50	NA		NA	<0.5	<0.5	<1.5	<1.5	NA	NA	NA	
	7/20/1989		<100	NA		NA	0.8	<0.5	<0.5	<0.5	NA	NA	NA	
	1998	Monitoring wells were sampled for four quarters in 1998 by EnviroNet Consultants. Due to questions by the NCRWQCB about the quality of the data, EnviroNet's data is not presented herein.												
	10/28/2002	8015M/8020/8260B	<50	<50	NA	<0.5	<0.5	<0.5	<1.5	<1.0	<1.0, TBA < 25	NA	NA	
MW-1	1/28/2003	8015M/8020/8260B	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	NA	
	4/29/2003	8015M/8020/8260B	<50	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	NA	
	8/7/2003	8015M/8260	<50	NA		NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA < 25	NA	
	11/3/2003		Not sampled											
	5/10/2005	5030/8015M/8260B	<50	<50	<200	NA	<1.0	3.5	<1.0	3.0	<1.0	<1.0, TBA < 25	NA	NA
MW-1	7/25/01 thru 11/3/03	Not Sampled Due to Access Restrictions												

Table 4. Groundwater Sample Analyses Results

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Well ID	Date Sampled	Analytic Methods	TPH-G	TPH-D	TPH-MO	TPH-K	B	T	E	X	MTBE	Oxygenated Fuel Additives	1,2-DCA
			ug/L										
DPE-1	11/3/2003	8015M/8260	13,000	NA		NA	400	16	310	72	<10	<10, TBA <250	NA
	1/27/2004	8015M/8260B	8,400	NA		NA	100	<10	290	30	<10	<10, TBA <250	NA
	5/28/2004	5030/8015M/8260B	16,000	NA		NA	120	<10	160	15	<10	<10, TBA <250	NA
	5/10/2005	5030/8015M/8260B	8,700	5,200¹	<200	NA	37	<5.0	150	9.0	<5.0	<5.0, TBA <120	NA
	8/10/2005 ^a	5030/8015M/8260B	8,300	NA	NA	NA	31	<5.0	47	<5.0	<5.0	<5.0, TBA <120	NA
	11/10/2005	5030/8015M/8260B	9,000	NA	NA	NA	11	<5.0	13	5.3	<5.0	<5.0, TBA <120	NA
DPE-2	1/27/2004	8015M/8260B	9,000	NA		NA	210	6.2	590	42	<5.0	<5.0, TBA <100	NA
	5/10/2005	5030/8015M/8260B	8,600	6,200¹	<200	NA	130	5.6	310	33	<5.0	<5.0, TBA <120	NA
DPE-3	11/3/2003	8015M/8260	29,000	NA		NA	220	7.7	20	7.2	<5.0	<5.0, TBA <100	NA
	1/27/2004	8015M/8260B	14,000	NA		NA	310	8.5	77	16	<5.0	<5.0, TBA <100	NA
	5/10/2005	5030/8015M/8260B	7,300	3,200¹	<200	NA	240	9.9	81	15	<5.0	<5.0, TBA <120	NA
DPE-4	5/10/2005	5030/8015M/8260B	3,400	1,400¹	<200	NA	1.5	1.1	49	8.9	<1.0	<1.0, TBA <25	NA
DPE-5	1/27/2004	8015M/8260B	6,000	NA		NA	13	4.3	310	110	<2.0	<2.0, TBA <50	NA
	5/10/2005	5030/8015M/8260B	4,300	1,700¹	<200	NA	4.4	1.4	47	17	<1.0	<1.0, TBA <25	NA
	8/10/2005 ^a	5030/8015M/8260B	2,000	NA	NA	NA	1.6	<1.0	8.7	6.8	<1.0	<1.0, TBA <25	NA
	11/10/2005	5030/8015M/8260B	1,300	NA	NA	NA	1.5	<1.0	4.5	3.4	<1.0	<1.0, TBA <25	NA
DPE-6	1/27/2004	8015M/8260B	11,000	NA		NA	46	<20	210	100	<20	<20, TBA <500	NA
	5/10/2005 ^a	5030/8015M/8260B	1,900	1,100¹	<200	NA	11	1.4	27	12	<1.0	<1.0, TBA <25	NA
	11/10/2005	5030/8015M/8260B	3,100	NA	NA	NA	<1.0	<1.0	1.4	1.0	<1.0	<1.0, TBA <25	NA
DPE-7	5/10/2005	5030/8015M/8260B	650	350¹	<200	NA	1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
	8/10/2005 ^a	5030/8015M/8260B	1,200	NA	NA	NA	2.0	<1.0	3.7	5.4	<1.0	<1.0, TBA <25	NA
	11/10/2005	5030/8015M/8260B	<50	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
DPE-8	5/10/2005 ^a	5030/8015M/8260B	2,200	1,900¹	<200	NA	37	<1.0	39	1.9	<1.0	<1.0, TBA <25	NA
	11/10/2005	5030/8015M/8260B	610	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0, TBA <25	NA
DPE-9	11/3/2003	8015M/8260	18,000	NA		NA	220	11	600	231	<10	<10, TBA <250	NA
	1/27/2004	8015M/8260B	9,800	NA		NA	100	<10	360	90	<10	<10, TBA <250	NA
	5/28/2004	8015M/8020	78,000	NA		NA	870	410	2,400	1,700	NA	NA	NA
	5/10/2005	5030/8015M/8020B	35,000	27,000¹	<2,000	NA	19	<10	220	28	<10	<10, TBA <250	NA
	8/10/2005 ^a	5030/8015M/8020B	16,000	NA	NA	NA	24	<10	160	150	<10	<10, TBA <250	NA
	11/10/2005 ^b	5030/8015M/8020B	40,000	NA	NA	NA	<10	<10	24	50	<10	<10, TBA <250	NA
Trip Blank	7/25/2001	8260/8020	<50	NA		NA	<0.30	<0.30	<0.50	<0.50	NA	NA	NA
	10/29/2001	8015/8020	58	NA		NA	<0.30	1.2	0.95	6.3	NA	NA	NA
	1/30/2002	NA	---	---		---	---	---	---	---	---	---	---
	4/29/2002	8015M/8020/8260M	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	7/30/2002	8015M/8020/8260M	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	10/28/2002	8015M/8020	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	1/28/2003	8015M/8020	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	4/29/2003	8015M/8020	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	8/7/2003	8015M/8020	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	11/3/2003	8015M/8020	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
DPE-1	1/27/2004	8015M/8260B	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA
	5/28/2004	8015M/8260B	<50	NA		NA	<0.5	<0.5	<0.5	<1.5	NA	NA	NA

ABBREVIATIONS:

NA = Not analyzed
 ND = Not detected above laboratory detection limits
 TPH-G = Total petroleum hydrocarbons as gasoline
 TPH-D = Total petroleum hydrocarbons as diesel
 TPH-MO = Total petroleum hydrocarbons as diesel
 TPH-K = Total petroleum hydrocarbons as motor oil
 B = Benzene
 T = Toluene
 E = Ethyl benzene
 X = Total xylenes
 MTBE = Methyl tert-butyl ether
 1,2-DCA = 1,2-Dichloroethane

NOTES:

Groundwater samples collected on 5/10/05 were analyzed for volatile hydrocarbons by EPA Method 8260B (full list). Other volatile hydrocarbons other than oxygenated fuel additives were detected, but were not listed above. A complete list and analytical report can be found in the 2nd Quarter 2005 Groundwater Monitoring Report (Dated 8/12/05).

* = Duplicate Sample

** = MTBE analyzed by EPA Method 8260

*** = Please reference groundwater monitoring reports for detection limits.

¹ = The sample does not exhibit a chromatographic pattern characteristic of diesel. Higher boiling point constituents of weathered gasoline are present.

² = The sample exhibits a pattern most similar to weathered gasoline. The result is elevated for this sample due to a floating sheen analyzed in the extraction of the 1 liter container compared to analyzing only the subsurface dissolved-phase in the TPH-G analysis.

³ = The laboratory report notes that a floating product sheet may have positively impacted the result.

⁴ = Silica gel cleanup was utilized for this sample prior to analysis.

^a = The ozone/hydrogen peroxide system was installed and started-up on June 2 and 3, 2005.

^b = The sample required a dilution due to the presence of significant amounts of non-target hydrocarbons, which resulted in an increase in the reported detection limit.

Table 5. Additional Groundwater Analytical Results

Former Mead Clark Lumber Company
Third and Railroad Streets, Santa Rosa, California

Sample ID	Sample Date	Hexavalent Chromium	Bromate	Bromide	Molybdenum	Selenium	Vanadium
		EPA 7196A	EPA 300 (IC)		EPA 6010/200.9		
		mg/L					
GW-1	5/10/05	<0.005 ^a	<0.015 ^b	0.14	<0.05	<0.005	<0.05
GW-2	5/10/05	<0.005 ^a	<0.015 ^b	0.11	<0.05	<0.005	<0.05
	8/10/05 *	<0.005 ^c	<0.015 ^b	0.086	<0.05	<0.005	<0.05
	11/10/05	<0.005 ^d	<0.010	0.10	<0.05	<0.005	<0.05
DPE-1	5/10/05	<0.005 ^a	<0.015 ^b	0.21	<0.05	<0.005	<0.05
	8/10/05 *	<0.005 ^c	<0.015 ^b	0.26	<0.05	<0.005	<0.05
	11/10/05	<0.005 ^d	<0.010	0.32	<0.05	<0.005	<0.05
DPE-2	5/10/05	<0.005 ^a	<0.015 ^b	0.43	<0.05	<0.005	<0.05
DPE-3	5/10/05	<0.005 ^a	<0.015 ^b	0.46	<0.05	<0.005	<0.05
DPE-5	5/10/05	<0.005 ^a	<0.015 ^b	0.18	<0.05	<0.005	<0.05
	8/10/05 *	<0.005 ^c	<0.010	0.23	<0.05	<0.005	<0.05
	11/10/05	<0.005 ^d	<0.010	0.23	<0.05	<0.005	<0.05
DPE-7	5/10/05	<0.005 ^a	<0.015 ^b	0.14	<0.05	<0.005	<0.05
	8/10/05 *	<0.005 ^c	<0.015 ^b	0.17	<0.05	<0.005	<0.05
	11/10/05	<0.005 ^d	0.14	0.074	<0.05	<0.005	<0.05
DPE-8	5/10/05	<0.005 ^a	<0.015 ^b	0.45	<0.05	<0.005	<0.05
DPE-9	5/10/05	<0.005 ^a	<0.015 ^b	0.13	<0.05	<0.005	<0.05
	8/10/05 *	<0.005 ^c	<0.015 ^b	0.34	<0.05	<0.005	<0.05
	11/10/05	<0.005 ^d	<0.010	0.24	<0.05	<0.005	<0.05

Abbreviations:

mg/L = milligrams per liter (ppm)

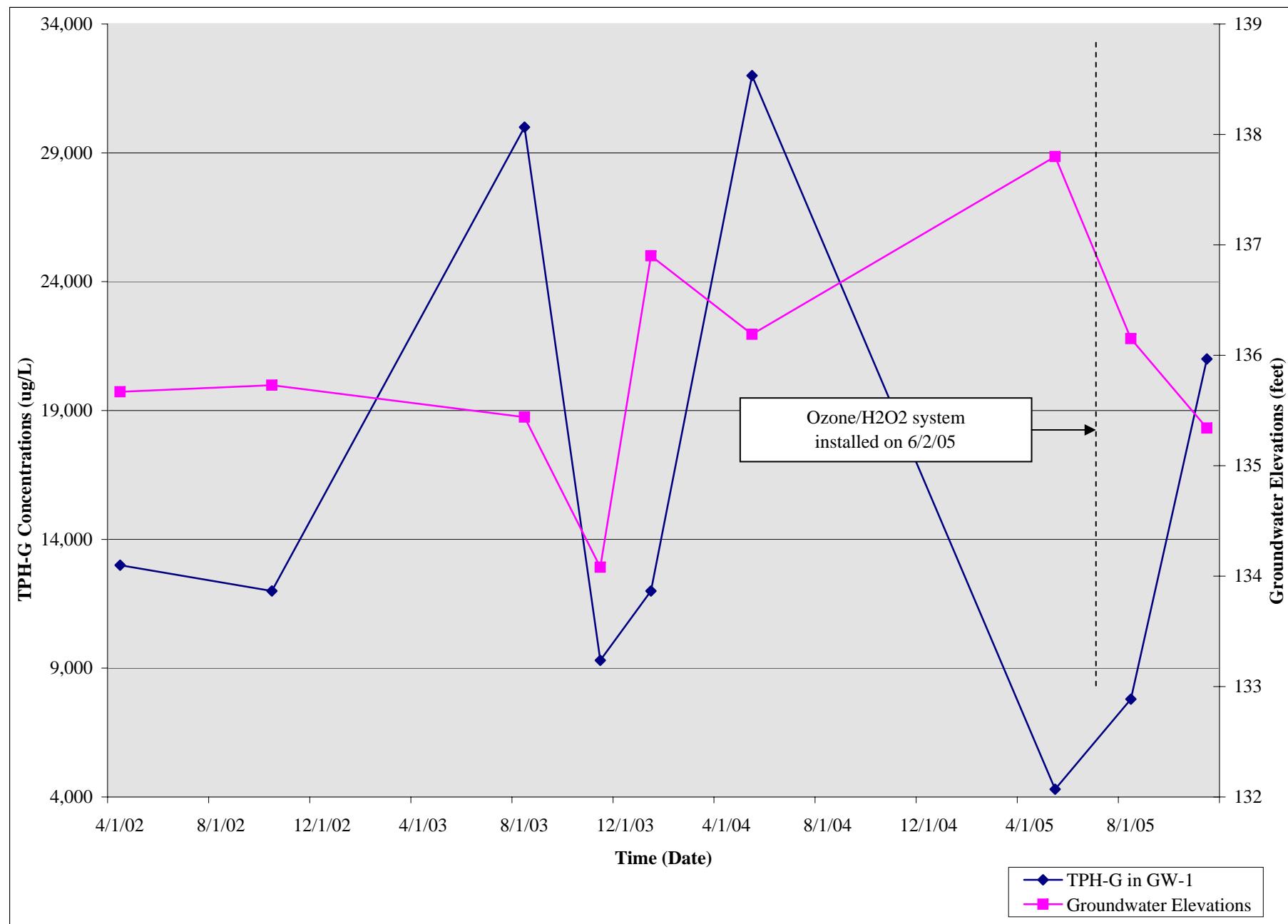
Notes:

- * = The ozone/hydrogen peroxide system was installed and started-up on June 2 and 3, 2005.
- a = The specific analysis for hexavalent chromium performed within 24 hours yielded a detection limit of 0.010 mg/L. Subsequent and separate analysis for total chromium using Zeeman graphite furnace (EPA 200.9) resulted in no detection of chromium at a detection limit below 0.005 mg/L. Hexavalent chromium is not present at a level above 0.005 mg/L.
- b = The sample required a dilution due to a sample matrix interference. The dilution resulted in a slight increase in the reported detection limit.
- c = The result reported is for total chromium. The hexavalent chromium analysis was not performed within the recommended holding time of 24 hours. A total chromium analysis at a detection limit of 0.005 mg/L would indicate no hexavalent chromium was present above 0.005 mg/L.
- d = The specific analysis for hexavalent chromium performed within 24 hours yielded a detection limit of 0.010 mg/L. Separate analysis for total chromium using ICP (EPA 6010) resulted in no detection of chromium at a detection limit below 0.005 mg/L.

Graphs

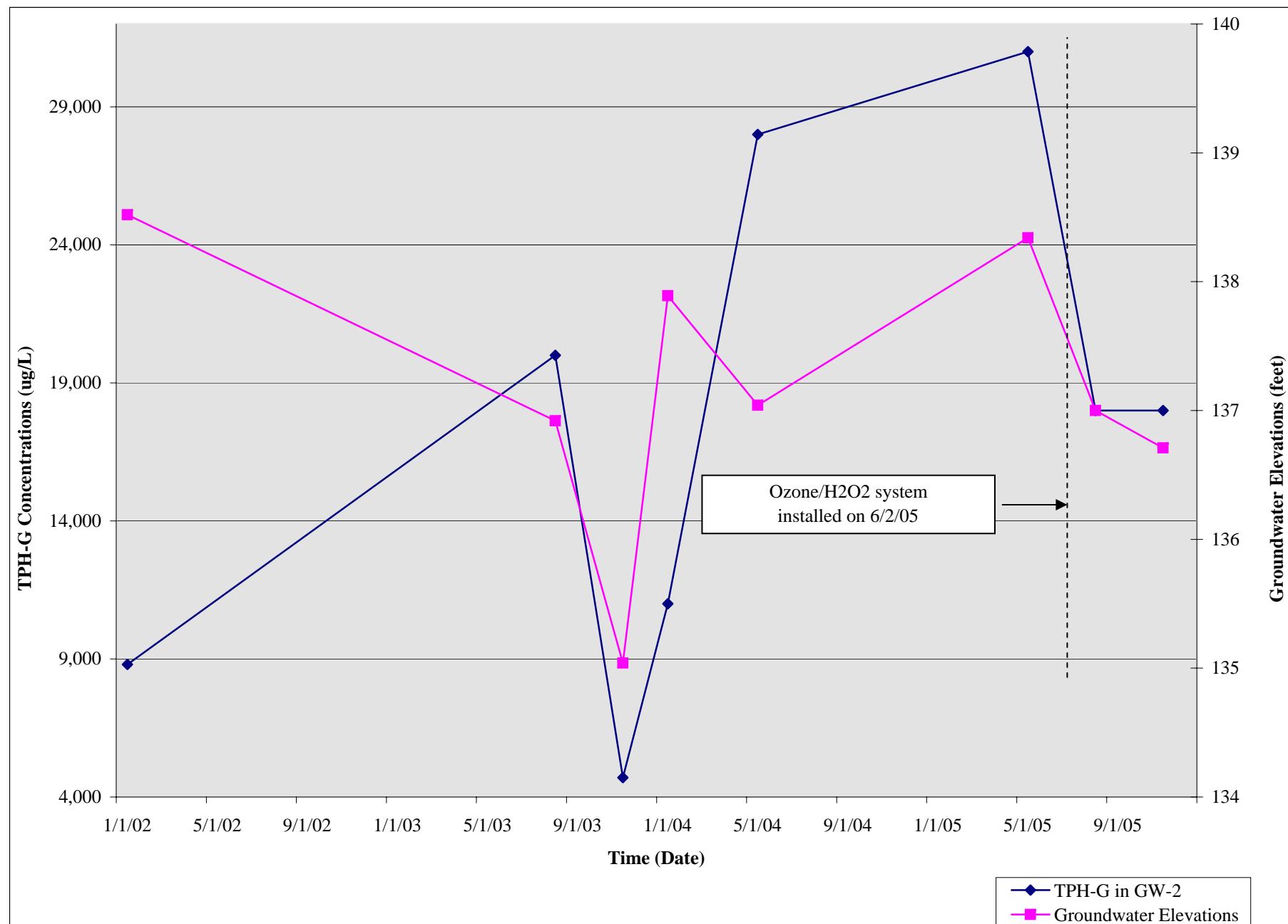
Graph 1: TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-1

Former Mead Clark Lumber
175 Railroad Street, Santa Rosa, CA



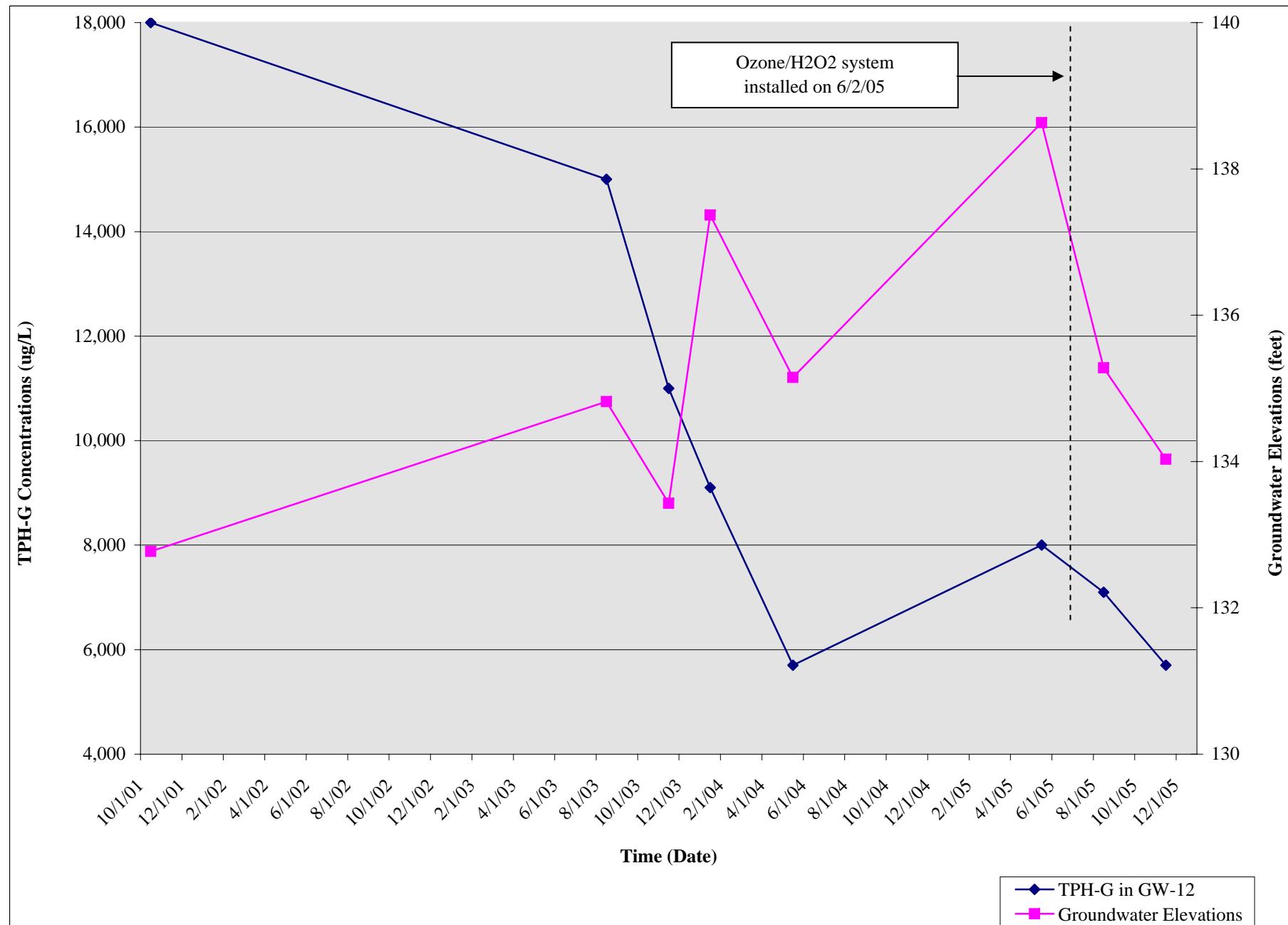
Graph 2: TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-2

Former Mead Clark Lumber
175 Railroad Street, Santa Rosa, CA



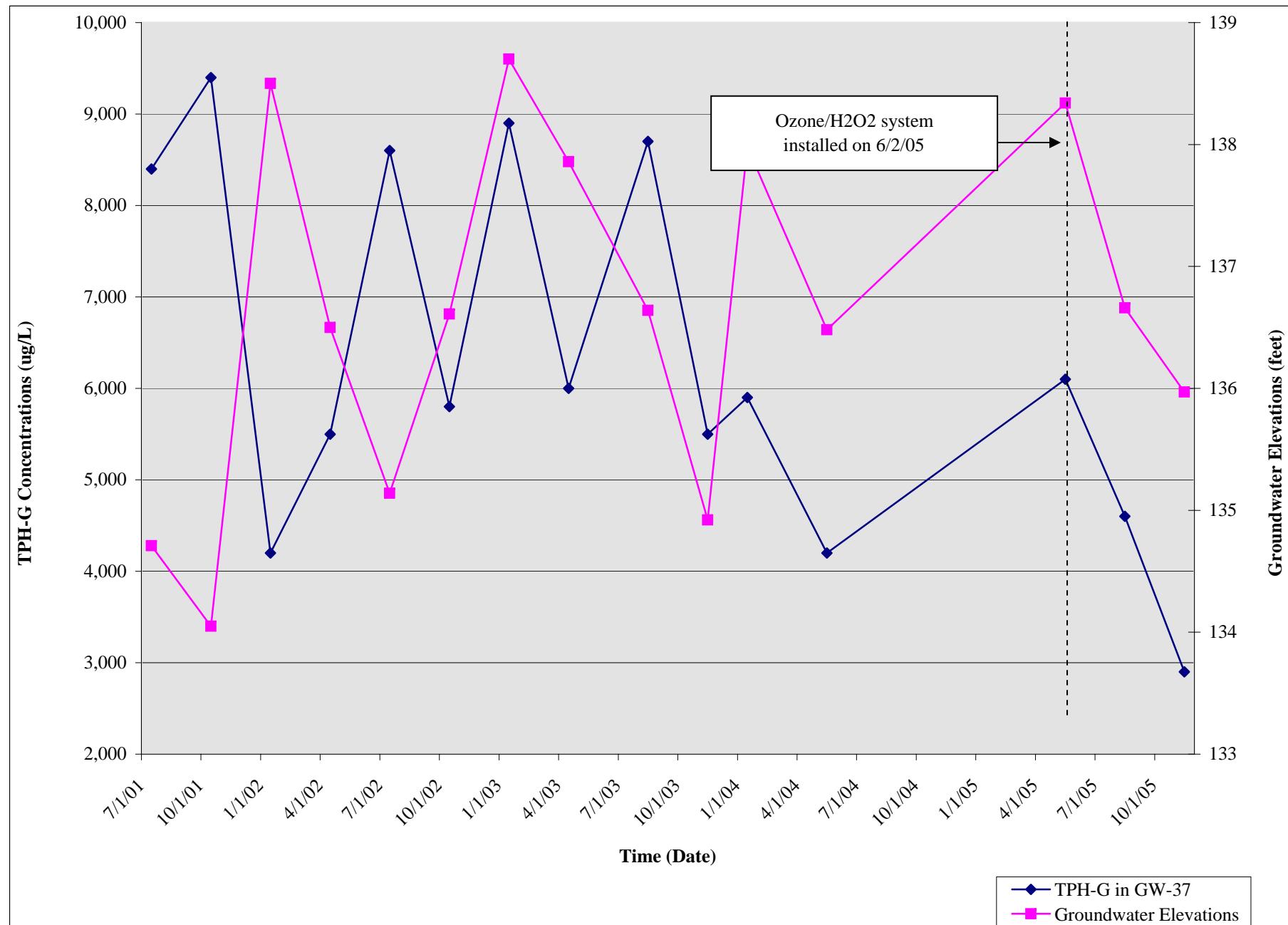
Graph 3: TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-12

Former Mead Clark Lumber
175 Railroad Street, Santa Rosa, CA



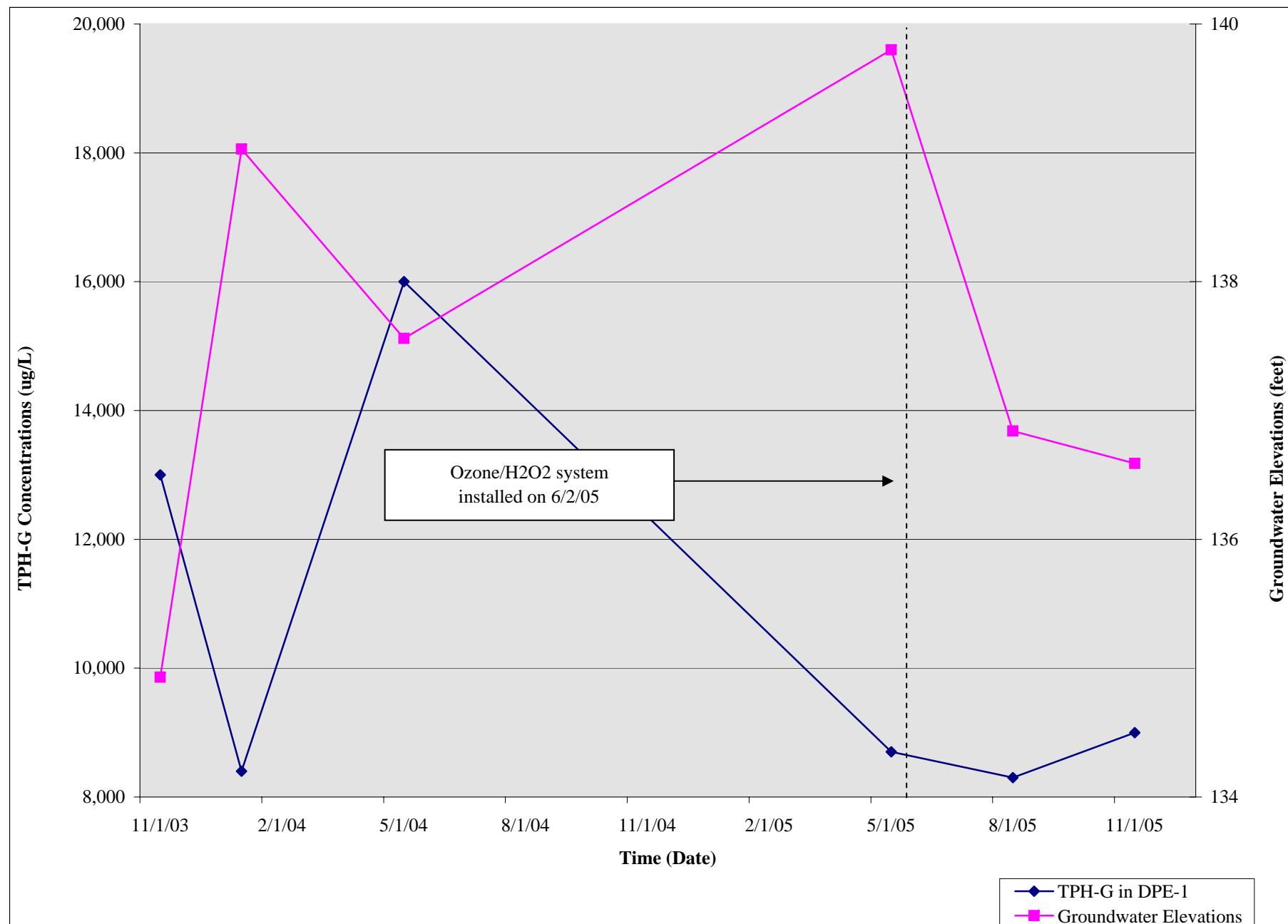
Graph 4: TPH-G Concentrations vs. Groundwater Elevations Over Time in GW-37

Former Mead Clark Lumber
175 Railroad Street, Santa Rosa, CA



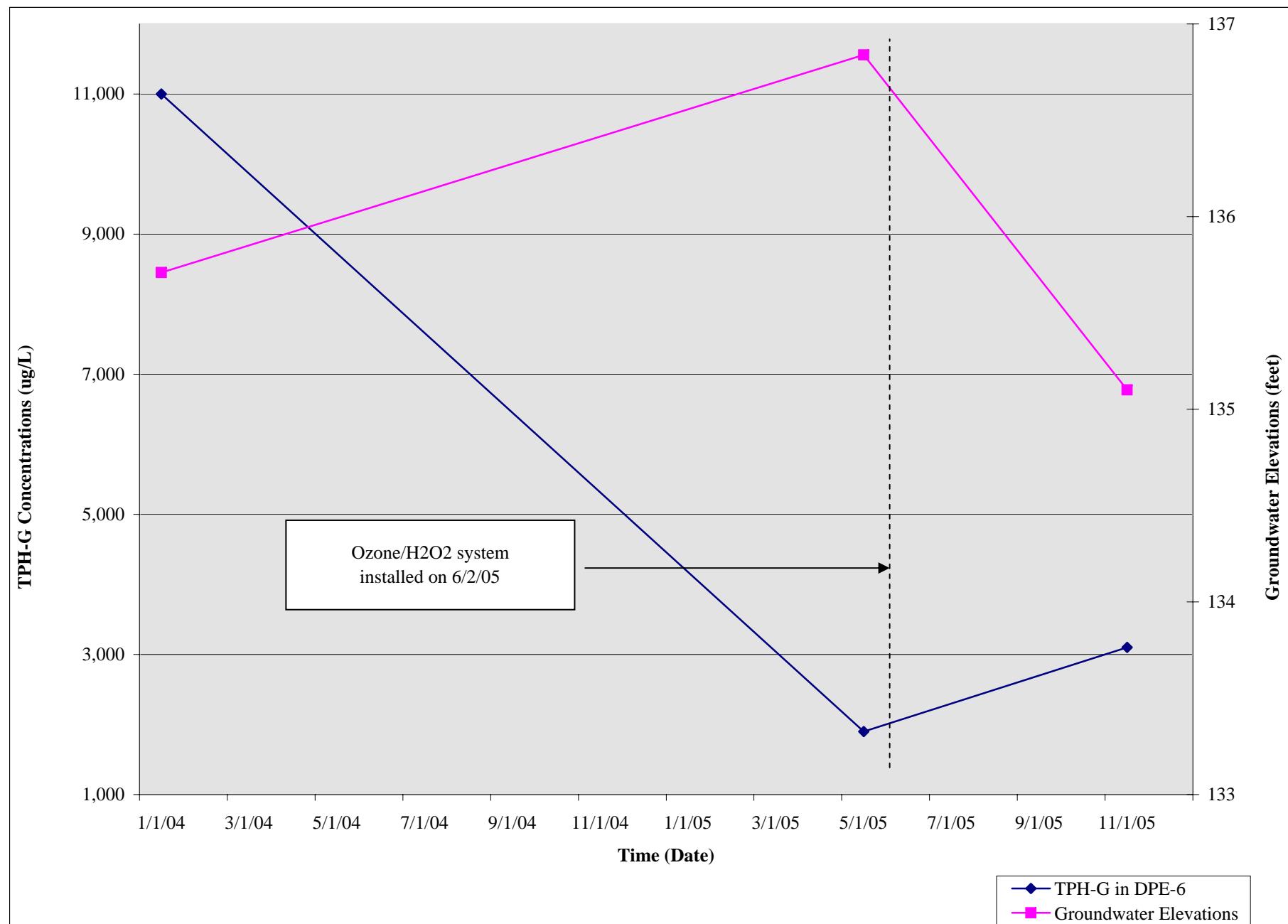
Graph 5: TPH-G Concentrations vs. Groundwater Elevations Over Time in DPE-1

Former Mead Clark Lumber
175 Railroad Street, Santa Rosa, CA



Graph 6: TPH-G Concentrations vs. Groundwater Elevations Over Time in DPE-6

Former Mead CLark Lumber
175 Railroad Street, Santa Rosa, CA



Appendix A
Site-Specific Sampling Procedures

WINZLER & KELLY CONSULTING ENGINEERS

Site-Specific Groundwater Sampling Procedures Former Mead Clark Lumber Site Third and Railroad Streets, Santa Rosa, California November 10, 2005

1. Objective

Collect representative water level data and groundwater samples.

2. Background

Based on analytical results of the previous quarterly sampling event, field work proceeded from the monitoring wells with the lowest concentrations of constituents to the wells that had the highest concentrations of constituents.

Water levels were measured to determine the groundwater flow gradient and flow direction. Representative groundwater samples from the water-bearing zone were obtained using disposable polyethylene bailers after purging.

3. Personnel Required and Responsibilities

Blaine Tech Services Field Technician: The technician performed water level measurements and purging activities in accordance with the procedures outlined below.

Winzler & Kelly Technician: The technician collected groundwater samples in accordance with the procedures outlined below.

4. Procedures

4a. Decontamination Procedures

- The water level meter and pumps were decontaminated using a steam cleaner upon arriving at the site.
- The meters and pumps were decontaminated following use in each well.
- Nitrile gloves were worn by the technicians when handling equipment and instruments and changed after each use.

4b. Groundwater Elevations

- Each monitoring well was opened and the expandable caps were removed.
- Each well was allowed to equilibrate to atmospheric pressure for a minimum of 20 minutes.
- A water level meter was used to measure the depth-to-groundwater in each monitoring well.

- The depth, time, and visual observations regarding well access, condition, security, etc., were recorded on the water level data sheet.

4c. DO Concentrations

- The membrane on the YSI Model 55 DO meter was checked for the presence of bubbles and wrinkles, neither of which was observed.
- The meter was calibrated in the field prior to collecting measurements.
- Using the calibrated YSI Model 55 DO Meter, DO concentrations were measured in each monitoring well.

4d. Purging

- The meters used to measure indicator parameters were calibrated prior to sampling.
- The volume of standing water in each monitoring well was calculated using the measured depth-to-water and historic depth-to-bottom. The volume was recorded on the Well Sampling Data Sheet for each well.
- Each well sampled was purged of three well volumes using a down-hole 3-inch electric submersible pump attached to plastic tubing, unless the well dewatered before such a volume was purged.
- Conductivity, pH, turbidity, oxidation-reduction potential, and temperature were monitored at each well casing interval throughout the purging process.
- The time, readings, and visual comments were recorded on the Well Sampling Data Sheet.
- Purge water was transferred to a 2,000-gallon tank stored and secured on site.

4e. Groundwater Sample Collection

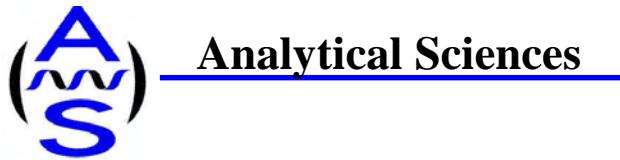
- Groundwater samples were collected by lowering previously unused, disposable, polyethylene, bottom-filling bailers into the well after the water level had recharged to at least 80 percent.
- When completely full, the bailer was carefully retracted from the well casing.
- The groundwater from each well sampled was transferred from the bailer into the appropriate sampling containers.
- Upon filling, each vial was immediately capped. The vial was checked for air bubbles by inverting and gently tapping the vial. If any bubbles were visible, the vial was refilled and confirmed to be free of any air bubbles.
- All samples were labeled with the following information:

Sample ID	Date and Time Sample Collected
Location	Sampler's Initials
- Sample information was documented on a chain-of-custody form.
- All samples were placed in an ice chest, chilled with ice.
- Upon completion of the sampling activities, each well was closed and secured by replacing the well cap and securing the lock.

5. Equipment Used:

- Disposable gloves
- Potable water
- Alconox soap
- Scrub brushes
- Tools to open wells
- Keys to wells
- Water Level Data Form
- Well Sampling Data Sheet
- Chain-of-Custody Form
- Water level meter
- 3-inch electric submersible pump
- 1.75-inch positive displacement pump
- Ultrameter 6P
- YSI Model 55 DO Meter
- Turbidity Meter
- Disposable bailers (previously unused)
- Monofilament nylon line (50-lb test)
- Scissors
- Sample containers (preserved, as required) - provided by the laboratory
- Sample labels
- Ice chest
- Ice
- Labels / Indelible marker
- Trash bags
- 2,000-gallon storage tank
- Ziploc bags
- Nitrile Gloves

Appendix B
Analytical Laboratory Report



Analytical Sciences

Report Date: December 01, 2005

Laboratory Report

Sonja Church
Winzler & Kelly Consulting Engineers
495 Tesconi Circle, Suite 9
Santa Rosa, CA 95401

Project Name: **Former Mead Clark Lumber** **0242505001.32002**
Lab Project: **5111007**

This 23 page report of analytical data has been reviewed and approved for release.

A handwritten signature in blue ink that reads "Mark A. Valentini".

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-01	GW-13A	Gasoline	ND	50

Date Sampled:	11/10/05	Date Analyzed:	11/15/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-02	GW-18	Gasoline	ND	50

Date Sampled:	11/10/05	Date Analyzed:	11/16/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-03	DPE-7	Gasoline	ND	50

Date Sampled:	11/10/05	Date Analyzed:	11/15/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-04	DPE-6	Gasoline	3100	250

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-05	DPE-5	Gasoline	1300	50

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-06	DPE-8	Gasoline	610	50

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-07	GW-37	Gasoline	2900	250

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-08	GW-12	Gasoline	5700	500

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-09	DPE-1	Gasoline	9000	500

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-10	GW-1	Gasoline	21000	500

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-11	GW-2	Gasoline	18000	500

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-12	DPE-9	Gasoline	40000	500

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000316
Date Received:	11/10/05	Method:	EPA 8015	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-01	GW-13A	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.3	102	70-130
Toluene-d8		21.2	106	70-130
4-Bromofluorobenzene		20.8	104	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-02	GW-18	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.9	94	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		20.0	100	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-03	DPE-7	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.7	94	70-130
Toluene-d8		20.6	103	70-130
4-Bromofluorobenzene		20.0	100	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-04	DPE-6	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	1.4	1.0
		m,p-Xylene	1.0	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.7	94	70-130
Toluene-d8		20.0	100	70-130
4-Bromofluorobenzene		21.4	107	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-05	DPE-5	Benzene	1.5	1.0
		Toluene	ND	1.0
		Ethylbenzene	4.5	1.0
		m,p-Xylene	3.4	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.8	94	70-130
Toluene-d8		21.4	107	70-130
4-Bromofluorobenzene		20.6	103	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-06	DPE-8	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.7	94	70-130
Toluene-d8		21.4	107	70-130
4-Bromofluorobenzene		20.9	104	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-07	GW-37	Benzene	6.1	1.0
		Toluene	ND	1.0
		Ethylbenzene	84	1.0
		m,p-Xylene	56	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.8	94	70-130
Toluene-d8		20.6	103	70-130
4-Bromofluorobenzene		20.2	101	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-08	GW-12	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	6.8	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	6.4	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.1	90	70-130
Toluene-d8		20.6	103	70-130
4-Bromofluorobenzene		25.6	128	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-09	DPE-1	Benzene	11	5.0
		Toluene	ND	5.0
		Ethylbenzene	13	5.0
		m,p-Xylene	5.3	5.0
		o-Xylene	ND	5.0
		Tertiary Butyl Alcohol (TBA)	ND	120
		Methyl tert-Butyl Ether (MTBE)	ND	5.0
		Di-isopropyl Ether (DIPE)	ND	5.0
		Ethyl tert-Butyl Ether (ETBE)	ND	5.0
		Tert-Amyl Methyl Ether (TAME)	ND	5.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.0	95	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.6	108	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch:	B000314
Date Received:	11/10/05	Method:	EPA 8260B		

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)	
5111007-10	GW-1	Benzene	ND	5.0	NT
		Toluene	ND	5.0	
		Ethylbenzene	61	5.0	
		m,p-Xylene	12	5.0	
		o-Xylene	ND	5.0	
		Tertiary Butyl Alcohol (TBA)	ND	120	
		Methyl tert-Butyl Ether (MTBE)	ND	5.0	
		Di-isopropyl Ether (DIPE)	ND	5.0	
		Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
		Tert-Amyl Methyl Ether (TAME)	ND	5.0	
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)	
Dibromofluoromethane		19.4	97	70-130	
Toluene-d8		20.7	104	70-130	
4-Bromofluorobenzene		22.1	110	70-130	
Date Sampled:	11/10/05	Date Analyzed:	11/11/05	QC Batch: B000314	
Date Received:	11/10/05	Method:	EPA 8260B		



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-11	GW-2	Benzene	ND	10
		Toluene	ND	10
		Ethylbenzene	12	10
		m,p-Xylene	ND	10
		o-Xylene	ND	10
		Tertiary Butyl Alcohol (TBA)	ND	250
		Methyl tert-Butyl Ether (MTBE)	ND	10
		Di-isopropyl Ether (DIPE)	ND	10
		Ethyl tert-Butyl Ether (ETBE)	ND	10
		Tert-Amyl Methyl Ether (TAME)	ND	10
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.4	92	70-130
Toluene-d8		20.4	102	70-130
4-Bromofluorobenzene		21.4	107	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5111007-12	DPE-9	Benzene	ND	10
		Toluene	ND	10
		Ethylbenzene	24	10
		m,p-Xylene	50	10
		o-Xylene	ND	10
		Tertiary Butyl Alcohol (TBA)	ND	250
		Methyl tert-Butyl Ether (MTBE)	ND	10
		Di-isopropyl Ether (DIPE)	ND	10
		Ethyl tert-Butyl Ether (ETBE)	ND	10
		Tert-Amyl Methyl Ether (TAME)	ND	10
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.3	92	70-130
Toluene-d8		20.8	104	70-130
4-Bromofluorobenzene		22.8	114	70-130

Date Sampled:	11/10/05	Date Analyzed:	11/12/05	QC Batch: B000314
Date Received:	11/10/05	Method:	EPA 8260B	



Dissolved Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-03	DPE-7	Molybdenum (Mo)	ND	0.050
		Selenium (Se)	ND	0.005
		Vanadium (V)	ND	0.050

Date Sampled:	11/10/05	Date Analyzed:	11/16/05	QC Batch: B000327
Date Received:	11/10/05	Method:	EPA 6010B	

Dissolved Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-05	DPE-5	Molybdenum (Mo)	ND	0.050
		Selenium (Se)	ND	0.005
		Vanadium (V)	ND	0.050

Date Sampled:	11/10/05	Date Analyzed:	11/16/05	QC Batch: B000327
Date Received:	11/10/05	Method:	EPA 6010B	

Dissolved Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-09	DPE-1	Molybdenum (Mo)	ND	0.050
		Selenium (Se)	ND	0.005
		Vanadium (V)	ND	0.050

Date Sampled:	11/10/05	Date Analyzed:	11/16/05	QC Batch: B000327
Date Received:	11/10/05	Method:	EPA 6010B	



Dissolved Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-11	GW-2	Molybdenum (Mo)	ND	0.050
		Selenium (Se)	ND	0.005
		Vanadium (V)	ND	0.050

Date Sampled:	11/10/05	Date Analyzed:	11/16/05	QC Batch: B000327
Date Received:	11/10/05	Method:	EPA 6010B	

Dissolved Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-12	DPE-9	Molybdenum (Mo)	ND	0.050
		Selenium (Se)	ND	0.005
		Vanadium (V)	ND	0.050

Date Sampled:	11/10/05	Date Analyzed:	11/16/05	QC Batch: B000327
Date Received:	11/10/05	Method:	EPA 6010B	

Bromate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-03	DPE-7	Bromate	0.14	0.025

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300	

Bromate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-05	DPE-5	Bromate	ND	0.010

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300	



Bromate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-09	DPE-1	Bromate	ND	0.010

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300	

Bromate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-11	GW-2	Bromate	ND	0.010

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300	

Bromate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-12	DPE-9	Bromate	ND	0.010

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300	

Bromide in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-03	DPE-7	Bromide	0.074	0.020

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300.0	



Bromide in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-05	DPE-5	Bromide	0.23	0.020

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300.0	

Bromide in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-09	DPE-1	Bromide	0.32	0.020

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300.0	

Bromide in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-11	GW-2	Bromide	0.10	0.020

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300.0	

Bromide in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5111007-12	DPE-9	Bromide	0.24	0.020

Date Sampled:	11/10/05	Date Analyzed:	11/21/05	QC Batch: B000312
Date Received:	11/10/05	Method:	EPA 300.0	



Hexavalent Chromium in Water

Lab#	Sample ID	Compound Name	Result (mg/L)		RDL (mg/L)
5111007-03	DPE-7	Hexavalent Chromium	ND	(CL)	0.005

Date Sampled:	11/10/05	Date Analyzed:	11/10/05	QC Batch:	B000303
Date Received:	11/10/05	Method:	EPA 7196A		

Hexavalent Chromium in Water

Lab#	Sample ID	Compound Name	Result (mg/L)		RDL (mg/L)
5111007-05	DPE-5	Hexavalent Chromium	ND	(CL)	0.005

Date Sampled:	11/10/05	Date Analyzed:	11/10/05	QC Batch:	B000303
Date Received:	11/10/05	Method:	EPA 7196A		

Hexavalent Chromium in Water

Lab#	Sample ID	Compound Name	Result (mg/L)		RDL (mg/L)
5111007-09	DPE-1	Hexavalent Chromium	ND	(CL)	0.005

Date Sampled:	11/10/05	Date Analyzed:	11/10/05	QC Batch:	B000303
Date Received:	11/10/05	Method:	EPA 7196A		

Hexavalent Chromium in Water

Lab#	Sample ID	Compound Name	Result (mg/L)		RDL (mg/L)
5111007-11	GW-2	Hexavalent Chromium	ND	(CL)	0.005

Date Sampled:	11/10/05	Date Analyzed:	11/10/05	QC Batch:	B000303
Date Received:	11/10/05	Method:	EPA 7196A		



Hexavalent Chromium in Water

Lab#	Sample ID	Compound Name	Result (mg/L)		RDL (mg/L)
5111007-12	DPE-9	Hexavalent Chromium	ND	(CL)	0.005
Date Sampled:	11/10/05	Date Analyzed:	11/10/05		QC Batch: B000303
Date Received:	11/10/05	Method:	EPA 7196A		



Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000316 - EPA 5030 GC

Blank (B000316-BLK1)

Gasoline ND 50 ug/L

Prepared: 11/11/05 Analyzed: 11/16/05

Matrix Spike (B000316-MS1)

Benzene 9.18 0.50 ug/L 10.0 ND 92 70-130
Toluene 9.36 0.50 ug/L 10.0 ND 94 70-130
Ethylbenzene 9.75 0.50 ug/L 10.0 ND 98 70-130
Xylenes 29.2 1.5 ug/L 30.0 ND 97 70-130

Matrix Spike Dup (B000316-MSD1)

Benzene 9.19 0.50 ug/L 10.0 ND 92 70-130 0 20
Toluene 9.43 0.50 ug/L 10.0 ND 94 70-130 0 20
Ethylbenzene 9.92 0.50 ug/L 10.0 ND 99 70-130 1 20
Xylenes 29.6 1.5 ug/L 30.0 ND 99 70-130 2 20



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000314 - EPA 5030 GC/MS

Blank (B000314-BLK1)		Prepared & Analyzed: 11/11/05								
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	25	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
<i>Surrogate: Dibromofluoromethane</i>	19.4		ug/L	20.0		97	70-130			
<i>Surrogate: Toluene-d8</i>	19.7		ug/L	20.0		98	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	22.8		ug/L	20.0		114	70-130			
Matrix Spike (B000314-MS1)		Source: 5110911-01			Prepared & Analyzed: 11/11/05					
1,1-Dichloroethene (1,1-DCE)	20.9	1.0	ug/L	25.0	ND	84	70-130			
Benzene	22.8	1.0	ug/L	25.0	ND	91	70-130			
Trichloroethene (TCE)	22.3	1.0	ug/L	25.0	ND	89	70-130			
Toluene	22.8	1.0	ug/L	25.0	ND	91	70-130			
Chlorobenzene	21.2	1.0	ug/L	25.0	ND	85	70-130			
<i>Surrogate: Dibromofluoromethane</i>	20.7		ug/L	20.0		104	70-130			
<i>Surrogate: Toluene-d8</i>	21.2		ug/L	20.0		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	19.8		ug/L	20.0		99	70-130			
Matrix Spike Dup (B000314-MSD1)		Source: 5110911-01			Prepared & Analyzed: 11/11/05					
1,1-Dichloroethene (1,1-DCE)	21.0	1.0	ug/L	25.0	ND	84	70-130	0	20	
Benzene	22.7	1.0	ug/L	25.0	ND	91	70-130	0	20	
Trichloroethene (TCE)	22.4	1.0	ug/L	25.0	ND	90	70-130	1	20	
Toluene	22.8	1.0	ug/L	25.0	ND	91	70-130	0	20	
Chlorobenzene	21.0	1.0	ug/L	25.0	ND	84	70-130	1	20	
<i>Surrogate: Dibromofluoromethane</i>	20.6		ug/L	20.0		103	70-130			
<i>Surrogate: Toluene-d8</i>	21.3		ug/L	20.0		106	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	19.7		ug/L	20.0		98	70-130			



Dissolved Metals in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000327 - EPA 3010A

Blank (B000327-BLK1) Prepared: 11/15/05 Analyzed: 11/16/05

Molybdenum (Mo)	ND	0.050	mg/L							
Selenium (Se)	ND	0.005	mg/L							
Vanadium (V)	ND	0.050	mg/L							

LCS (B000327-BS1) Prepared: 11/15/05 Analyzed: 11/16/05

Vanadium (V)	0.499	0.050	mg/L	0.500		100	80-120			
Molybdenum (Mo)	0.458	0.050	mg/L	0.500		92	80-120			
Selenium (Se)	0.544	0.10	mg/L	0.500		109	80-120			

LCS Dup (B000327-BSD1) Prepared: 11/15/05 Analyzed: 11/17/05

Selenium (Se)	0.524	0.10	mg/L	0.500		105	80-120	4	20	
Vanadium (V)	0.493	0.050	mg/L	0.500		99	80-120	1	20	
Molybdenum (Mo)	0.453	0.050	mg/L	0.500		91	80-120	1	20	



Bromate in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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Batch B000312 - NO PREP

Blank (B000312-BLK1)

Prepared: 11/10/05 Analyzed: 11/21/05

Bromate ND 0.005 mg/L



Bromide in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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Batch B000312 - NO PREP

Blank (B000312-BLK1)

Prepared: 11/10/05 Analyzed: 11/21/05

Bromide ND 0.010 mg/L



Hexavalent Chromium in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000303 - NO PREP

Blank (B000303-BLK1)					Prepared: 11/08/05	Analyzed: 11/09/05				
Hexavalent Chromium	ND	0.005	mg/L							
LCS (B000303-BS1)					Prepared: 11/08/05	Analyzed: 11/09/05				
Hexavalent Chromium	1.12	0.005	mg/L	1.00		112	70-130			
LCS Dup (B000303-BSD1)					Prepared: 11/08/05	Analyzed: 11/09/05				
Hexavalent Chromium	1.04	0.005	mg/L	1.00		104	70-130	7	20	



Notes and Definitions

- NT The sample required a dilution due to the presence of significant amounts of non-target hydrocarbons. The dilution resulted in an increase in the reported detection limits.
- (CL) The specific analysis for hexavalent chromium performed within 24 hours yielded a detection limit of 0.010 mg/L. Separate analysis for total chromium using ICP (EPA 6010) resulted in no detection of chromium below 0.005 mg/L.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference

A
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Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER: 5111007

WINZLER & KELLY PROJECT NAME: Former Head Start Lumber

GLOBAL ID: 0242505001.32002

GEOTRACKER EDF: X Y N
GLOBAL ID: 0242505001.32002

COOLER TEMPERATURE
Blue Ice °C

COC
PAGE 1 OF 2

CLIENT INFORMATION	
COMPANY NAME:	WINZLER & KELLY CONSULTING ENGINEERS
ADDRESS:	495 TESCONI CIRCLE, SUITE 9
SANTA ROSA, CA	95401-4696
CONTACT:	<u>Results: Songy J Questions: Pm</u>
PHONE#:	(707) 523-1010
FAX #:	(707) 527-8679

TURNAROUND TIME [check one]	
MOBILE LAB	SAME DAY
	24 HOURS
48 HOURS	72 HOURS
5 DAYS	NORMAL X

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/N NO	ANALYSIS		COMMENTS	LAB SAMPLE #
							USE, 40, framed	Black Chrome		
1	GW-13A	11/10/05	10:39	W	4	Yes X			*set hex	-01
2	GW-18	11/13	11:43		4	Yes			Chrome limit	-02
3	DPE-7	11/16			6	Y/N			X X X @ <2.5 µg/L	-03
4	DPE-6	11/11			4	Yes			X X X set bracket	-04
5	DPE-5	11/11			7	Y/N			limit @ <10µg/L	-05
6	DPE-8	11/20			4	Yes			X X X filter fix	-06
7	GW-37	11/29			4	Yes			X X X in lab	-07
8	GW-12	11/33			4	Yes				-08
9	DPE-1	11/40			4	Y/N				-09
10	GW-1	12/01			4	Yes				-10
11	GW-2	12/03	↓		7	Y/N	↓			-11

SIGNATURES

SAMPLED BY:

Don Keyserling

RELINQUISHED BY:

J. Keyserling

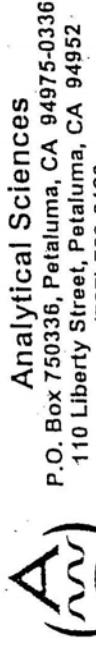
RECEIVED BY LABORATORY:

C. C. C. C.

TIME
11/10/05 13:30

DATE
11/10/05

TIME
14:00
DATE
11/10/05



Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

LAB PROJECT NUMBER:

5/11/07

CLIENT INFORMATION

COMPANY NAME: WINZLER & KELLY CONSULTING ENGINEERS

ADDRESS: 495 TESCONI CIRCLE, SUITE 9

SANTA ROSA, CA 95401-4696

CONTACT: Jeffrey Sengenzer; Questions: for

PHONE #: (707) 523-1010

FAX #: (707) 527-8679

WINZLER & KELLY PROJECT NAME:

Former Landfill leach water

GLOBAL ID: 0282505001.32002

TURNAROUND TIME (check one)

MOBILE LAB

SAME DAY

24 HOURS

48 HOURS

72 HOURS

5 DAYS

NORMAL

COOLER TEMPERATURE
Blue Ice, °C

COC

PAGE 2 OF 2

GEOTRACKER EDF: L Y N
GLOBAL ID: 1609300540

ANALYSIS

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	LAB SAMPLE #	COMMENTS
1	DPE-9	4/10/07	2:25 PM	7	Y/N	X		X X set hex 5/11/07-12 chromic limit @ <5ug/L
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

SIGNATURES

SAMPLED BY:

RECEIVED BY LABORATORY:

P. Sengenzer 13:30
11/10/05 19/05
DATE TIME

RELINQUISHED BY:

SIGNATURE

SIGNATURE

Appendix C

GeoTracker Upload Verifications

Electronic Submittal Information

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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name: MEAD CLARK LUMBER SUPPLY
Global ID: T0609700540
Title: Well Abandonment Report,
9/22/05
Document Type: Reports - Other
Submittal Type: GEO_REPORT
Submittal Date/Time: 11/14/2005 11:09:36 AM
Confirmation Number: 5380628287

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Logged in as WINZLER (AUTH_RP)

CONTACT SITE [ADMINISTRATOR](#).

Electronic Submittal Information

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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name: MEAD CLARK LUMBER SUPPLY
Global ID: T0609700540
Title: Quarterly Groundwater Monitoring Report, 3rd Quarter 2005
Document Type: Monitoring Report - Quarterly
Submittal Type: GEO_REPORT
Submittal Date/Time: 12/7/2005 1:38:45 PM
Confirmation Number: 4935132682

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Your EDF file has been successfully uploaded!

Confirmation Number: 5317225158

Date/Time of Submittal: 12/7/2005 11:18:51 AM

Facility Global ID: T0609700540

Facility Name: MEAD CLARK LUMBER SUPPLY

Submittal Title: 3rd Quarter 2005, EDF Report 5081010

Submittal Type: Additional Information Report

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

Submittal Title: 4th Quarter 2005, Well Measurement File, Former Mead Clark
Lumber

Submittal Date/Time: 12/7/2005 11:34:29 AM

**Confirmation
Number:** 6754409611

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[CONTACT SITE ADMINISTRATOR.](#)

Appendix D

Operation and Maintenance Data

Operation and Maintenance Data
 Former Mead Clark Lumber
 Third and Railroad Street; Santa Rosa, Ca

Date	System Total Run Time (hours)	Ozone Readings			Hydrogen Peroxide Readings			Air Readings		
		Run Time Per Sparge Point (hours)	Injection Rate ^a (lb O3/day)	Pressure (psi)	Flow Rate (SCFM)	Run Time Per Sparge Point (hours)	Injection Rate ^b (gpd)	Run Time Per Sparge Point (psi)	Injection Pressure (psi)	Flow Rate (SCFM)
System Installation and Start-up. H2O2 was not started-up but was tested for leaks using distilled water. Initial system readings was recorded.										
06/02/05	1.1	1.1	0.5	19.0	0.24	1.9 ^c	OFF	2.0	30	1.0
06/08/05	117.5	NM	1.6	19.0	0.25	OFF	NM	30	1.4	
06/15/05	770.1	95.9	NM	18.5	0.23	OFF	19.3	29	1.0	
06/16/05	309.6	38.7	NM	17.5	0.27	OFF	40.2	30	1.0	
07/19/05	H2O2 start-up. 7% H2O2 is being injected.									
	1105.7	137.3	NM	19.5	0.24	2.0	0.84	69.2	30	1.0
07/27/05	1298.0	161.1	1.6	21.0	0.25	4.7	0.84	8.0	34	1.0
08/10/05	System off upon arrival. Ozone high pressure alarm turned system off at 6:09pm on 7/29/05. Cleared alarm and turned system back on 8/10/05. Performed 3rd quarter 2005 QM event.									
	1340.3	166.4	1.6	18.0	0.27	5.8	0.84	83.7	31	1.0
08/17/05	Increased H2O2 pump speed from 80 rpm to 100 rpm.									
	1509.3	187.3	NM	18.0	0.25	9.6	1.1	94.1	32	1.0
09/07/05	Disposable H2O2 pump due to low H2O2 levels in drum. Will turn H2O2 back on once H2O2 drum is refilled.									
	2013.7	249.6	1.6	18.5	0.27	21.1	OFF	125.3	31	1.0
09/21/05	2350.1	291.1	1.6	18.0	0.26	24.6	OFF	146.0	30	1.0
10/06/05	Enable H2O2 pump after filling H2O2 drum. Set pump speed to 80 rpm.									
	2710.3	335.6	1.6	18.0	0.25	32.8	0.84	168.3	30	1.0
10/20/05	3045.0	376.8	1.6	18.0	0.28	40.5	0.84	188.9	32	1.0
11/04/05	3407.7	421.7	1.6	17.0	0.28	48.7	0.84	211.2	31	1.0
Leak in one of the solenoids on the air manifold.										
11/10/05	Performed 4th quarter 2005 QM event.									
	3670.5	454.1	1.6	16.0	0.27	54.7	0.84	227.5	30	1.0
Found additional 1leaks in air line. Repaired leaks in air line.										
11/16/05 &	Troubleshoot each sparge point for the leaking solenoid. The solenoid on SP-9 was stuck open and allowed air to bleed into the well continually. The solenoid for SP-9 will be replaced once a new one arrives. This solenoid was moved to SP-11 for easy access. The system remained ON.									
11/17/05	Solenoid for SP-9 was replaced with new one. Turn system ON.									
11/22/05	Needed to change SP-10 and SP-11 to SP-1 and SP-2 due to bromate formation in DPE-7, but needed connectors on H2O2 lines. Ordered parts for H2O2 line and made repairs.									
12/13/05	There was a leak during on the air line during the repairs and added new connectors. Ordered new parts. System turned OFF.									
12/15/05	Transferred SP-10 and SP-11 to SP-1 and SP-2. Repaired air line. Increased H2O2 pump to 170 rpm and frequency to 80 minutes ON and 80 minutes OFF. Turned system ON.									
	4129.4	511.2	1.6	17.0	0.25	65.3	4.0	258.6	40	1.0

Note:

a = Calculated using the *Ozone Generation Curve* provided by Applied technology.

b = Calculated using the *Chemical Feed Pump Curve* provided by Applied technology.

c = Distilled water injected in sparge points, not H2O2.

lb O3/day = Pounds ozone per day

SCFM = Standard cubic foot per minute

gpd = gallons per day

H2O2 = Hydrogen peroxide

NM = Not measured

QM= Quarterly groundwater monitoring and sampling event

SPM = Strokes per minute